

19990909.qrp v01\_n574.qrl.990909

Date: Thu, 9 Sep 1999 19:03:12 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1574

QRP-L Digest 1574

Topics covered in this issue include:

- 1) [49749] Comments on low Gap Titan mt.  
by "rohre" <rohre@arlut.utexas.edu>
- 2) [49750] Re: 2 watt resistors  
by "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
- 3) [49751] RE: Help for a friend  
by Robert McConnell <rmcconne@lightlink.com>
- 4) [49752] Re: Best rigs  
by aa5yx@juno.com
- 5) [49753] Re: Verboten subject???
- by K2UD@aol.com
- 6) [49754] Re: HTX-100 (or is it HTX-10?)  
by "Charles Hamel" <cdhamel@pdq.net>
- 7) [49755] 2W Resistors/Load  
by mjfitz@uswest.net
- 8) [49756] Re: Verboten subject???
- by mwattcpa@earthlink.net (Marty Watt)
- 9) [49757] (Fwd) Re: Verboten subject???
- by "Carl Zmola" <zmola@campbellsci.com>
- 10) [49758] QRP antenna  
by <SFIKE@twa.com>
- 11) [49759] Re: Battery Float Charger  
by "M. Monninger" <markem@primenet.com>
- 12) [49760] 2W Resistors/Load parts offer  
by James Skalski <jskalski@localnet.com>
- 13) [49761] SLV info  
by Paul Womble <pwomble1@tampabay.rr.com>
- 14) [49762] FS: MFJ portable power pack and 40m dipole  
by Jerry Albertin <jalbertin@juno.com>
- 15) [49763] Have A&A 30m transceiver and TenTec 509 Want soem BA stuff, tubes  
etc.  
by "Bob Duckworth" <wb4mnf@atl.org>
- 16) [49764] Re: Repost "What Kit to Build #6"  
by "Roy" <ab7ce@email.msn.com>
- 17) [49765] 2W resistor info.....  
by osier <osier@northnet.org>
- 18) [49766] pixie-2  
by "Frederick R. Ramont" <fredr@95net.com>

- 19) [49767] Re: FCC's ULS system  
by "duane" <duane@flinet.com>
- 20) [49768] Ten Tec T-kits  
by "Roy" <ab7ce@email.msn.com>
- 21) [49769] MI Sprint contest Question  
by "Tim Cook" <timcook@erinet.com>
- 22) [49770] FS  
by "Perley Urquhart" <n1yuk@nemaine.com>
- 23) [49771] FS: MFJ 9040 40m QRP Transciever+Keyer+CW Filter  
by "Jerry McCollom W0MC" <w0mc@hotmail.com>
- 24) [49772] RE: Ten Tec T-kits  
by "Harry Hurst" <hhurst@delaware.infi.net>
- 25) [49773] Re: pixie-2  
by "Frederick R. Ramont" <fredr@95net.com>
- 26) [49774] DSW-20  
by "Charles Hamel" <cdhamel@pdq.net>
- 27) [49775] Pixie 2  
by "Frederick R. Ramont" <fredr@95net.com>
- 28) [49776] FOX HUNT TEAM PLAQUE  
by k5zty@juno.com
- 29) [49777] Re: DSW-20  
by Phil Wheeler <w7ox@mindspring.com>
- 30) [49778] Re: QRP DXCC  
by N7YA@aol.com
- 31) [49779] Grass roots radio  
by ac5ez@webtv.net (Larry B)
- 32) [49780] Re: Grounding for lightning  
by "al dawkins" <alk0frp@earthlink.net>
- 33) [49781] QRP vote  
by <SFIKE@twa.com>
- 34) [49782] Repost "Which Kit to Buy, #7"  
by Doug Hendricks <ki6ds@dospalos.org>
- 35) [49783] Repost "What Kit to Buy, #8"  
by Doug Hendricks <ki6ds@dospalos.org>
- 36) [49784] Repost "What Kit to Build, Part 4"  
by Doug Hendricks <ki6ds@dospalos.org>
- 37) [49785] Repost "What Kit to Build, Part 3"  
by Doug Hendricks <ki6ds@dospalos.org>
- 38) [49786] Re: Verboten subject???  
by Pete Burbank <plburbank@kih.net>
- 39) [49787] KL7H - QRP Gear - Garage Sale - Update  
by Bruce Hopkins - KL7H <kl7h@arrl.net>
- 40) [49788] Re: DXCC QRP Endorsement, my view, KI6DS  
by radioham@erols.com
- 41) [49789] Kudos to OHR/Dick Witzke/Marshall Emm  
by "Joel Kluender, NF9K" <nf9k@eudoramail.com>
- 42) [49790] Apologie  
by kc0bdw@webtv.net (Hal Schlotfeld)

- 43) [49791] Float Charger-Phoenix QTH  
by "Floyd Smithberg" <flydnq7x@primenet.com>
- 44) [49792] DSW-40  
by Jeff Francis <jfrancis@frii.com>
- 45) [49793] WM-20 VFO mods (for warm-up drift)  
by "Toru Kato" <jg1rvn@inv.co.jp>
- 46) [49794] DSW-30: first nite out  
by "Barrett M. Thompson" <barrettthompson@mindspring.com>
- 47) [49795] Re: [Re: Grounding for lightning]  
by Roy Lincoln <wa4dou@usa.net>
- 48) [49796] Rotten CW  
by Pete Burbank <plburbank@kih.net>
- 49) [49797] An answer, a thankyou, an apology and a backlash...  
by Daniel Bsrtlett <ausham@yahoo.com>
- 50) [49798] FS: SW40  
by Paul Erickson <paule@sfu.ca>
- 51) [49799] 2N2/40 Parts Kit  
by Jerry Parker <jparker@fix.net>
- 52) [49800] Recharging alkalines  
by "Frank G3YCC" <frank@g3ycc.karoo.co.uk>
- 53) [49801] Re: Help for a friend  
by "Robert M. Ganter" <hb9dnn@gmx.net>
- 54) [49802] QRP Email  
by Daniel Bartlett <ausham@rocknet.net.au>
- 55) [49803] Re: QRP vote  
by Jeff Davis <jeff@n9avg.org>
- 56) [49804] Re: Morse Code - Should we have it?  
by "Alex" <aturner@netunlimited.net>
- 57) [49805] Elmer 101 - SW-40 mods/ info  
by Dana E Hager <dehager@ix.netcom.com>
- 58) [49806] cw handkey on line  
by Scott Howell <whowell@hq.nasa.gov>
- 59) [49807] Re: I have a ZM-1 kit to give away.  
by "Randy Jouett" <rules@bellsouth.net>
- 60) [49808] Re: An answer, a thankyou, an apology and a backlash...  
by Terry Bendell <terryb@bmts.com>
- 61) [49809] My Perennial Question: Why 2 Fuses?  
by "Sly (9M8SL)" <cqsly@tm.net.my>
- 62) [49810] Re: Repost "What Kit to Buy, #8"  
by Macstein@aol.com
- 63) [49811] Re: Elmer 101 - SW-40 mods/ info  
by Michael Maiorana <mikemo@ibm.net>
- 64) [49812] Re: My Perennial Question: Why 2 Fuses?  
by "Mike Yetsko" <myetsko@insydesw.com>
- 65) [49813] QRP-expedition  
by Alen Mitrovic <alen.mitrovic@hermes.si>
- 66) [49814] Re: Rotten CW  
by "Brad Bradfield, PE" <b\_bradfield@yahoo.com>

- 67) [49815] QRP Weekend  
by Philip Karras <ke3fl@yahoo.com>
- 68) [49816] Re: HTX-100 (or is it HTX-10?)  
by "Randy Jouett" <rules@bellsouth.net>
- 69) [49817] One More DXCC QRP comment  
by Bcieslak@ra.rockwell.com
- 70) [49818] AA/AAA Battery Capacities  
by Phil Wheeler <w7ox@mindspring.com>
- 71) [49819] Salt Lake City Ham Shopping?  
by Bill Jones <kd7s@psnw.com>
- 72) [49820] AR QRP 40m Net Results  
by Robsparks@aol.com
- 73) [49821] RE: An answer, a thankyou, an apology and a backlash...  
by "Ed Tanton" <n4xy@att.net>
- 74) [49822] Re: Rotten CW  
by REDSBOY@aol.com
- 75) [49823] WestFLA Meeting Saturday 11 September, 1999  
by "Stephen D. Cohen" <scohen@xps.xybion.com>
- 76) [49824] USA Visit  
by Jack Bennett <J.Bennett@lboro.ac.uk>
- 77) [49825] Re: AA/AAA Battery Capacities  
by Tom M <tjmc@erols.com>
- 78) [49826] good home needs kit...  
by "Mark Hogan" <mhogan@email.msn.com>
- 79) [49827] Re: Rotten CW  
by jim seeber <kw3u@warwick.net>
- 80) [49828] T.O.M.  
by chuck.olson@sbaonline.gov
- 81) [49829] Re: An answer, a thankyou, an apology and a backlash...  
by "Frank Ivan - K0FEI" <k0fei@ibm.net>
- 82) [49830] Re: DSW-40  
by Jeff Francis <jfrancis@frii.com>
- 83) [49831] Re: TAYLOE DETECTOR?  
by Dave Hinerman <dlh1009@ritvax.isc.rit.edu>
- 84) [49832] Re: Rotten CW  
by Bob Nielsen <nielsen@primenet.com>
- 85) [49833] Re: Repost "What Kit to Buy, #8"  
by Bob Hightower <ki7mn@extremezone.com>
- 86) [49834] Re: USA Visit  
by "Ed Hare, W1RFI" <w1rfi@arrl.net>
- 87) [49835] Re: Repost of the kit to build #5  
by Allan G Taylor <k7gt@arrl.net>
- 88) [49836] General Class Theory  
by Marv Fagenson <k6hcj@juno.com>
- 89) [49837] Re: Rotten CW  
by "Barry L. Geipel - AD6HR" <bgeipel@primenet.com>
- 90) [49838] Radio Shack 10M rig  
by Bill H Hays <wj5o@juno.com>

- 91) [49839] FS: Autek RF-1  
by Allan G Taylor <k7gt@arrl.net>
- 92) [49840] Re: Radio Shack 10M rig  
by Dave Sjolín <sjolin@swbell.net>
- 93) [49841] Re: Rotten CW  
by REDSBOY@aol.com
- 94) [49842] Question for Minnesota QRP'ers  
by "Joel Kluender, NF9K" <nf9k@eudoramail.com>
- 95) [49843] Re: An answer, a thankyou, an apology and a backlash...  
by "Vincent Ferme" <vferme@sprint.ca>
- 96) [49844] Re: Rotten CW  
by Monte Stark <ku7y@dri.edu>
- 97) [49845] Re: Rotten CW  
by "Chuck Adams, K7Q0" <k7qo@hotmail.com>
- 98) [49846] Re: Radio Shack 10M rig  
by "Mike Yetsko" <myetsko@insydesw.com>
- 99) [49847] HTX-10 RadioShack SSB/FM transceiver  
by charles k brown <n4so@juno.com>
- 100) [49848] RE: Rotten CW  
by "Richard Hensel" <rrhensel@sprintmail.com>
- 101) [49849] RE: Radio Shack 10M rig  
by "Kevin Muenzler WB5RUE" <wb5rue@stic.net>
- 102) [49850] Re: ElmeRadio Pixie  
by Bruce Kizerian <kizerian@ced.utah.edu>
- 103) [49851] More on rotten CW  
by Pete Burbank <plburbank@kih.net>
- 104) [49852] Better CW  
by REDSBOY@aol.com
- 105) [49853] Re: My Perennial Question: Clarified...  
by "Sly (9M8SL)" <cqsly@tm.net.my>
- 106) [49854] Re: Rotten CW  
by Brian Murrey <brian@iquest.net>
- 107) [49855] Source of good inline fuse holders?  
by Paul Erickson <paule@sfu.ca>
- 108) [49856] Pacificon is Coming!!  
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
- 109) [49857] Re: Source of good inline fuse holders?  
by "Mike Yetsko" <myetsko@insydesw.com>
- 110) [49858] Re: My Perennial Question: Clarified...  
by "Mike Yetsko" <myetsko@insydesw.com>
- 111) [49859] Re: Better CW  
by Pete Burbank <plburbank@kih.net>
- 112) [49860] CW Abbreviations [long]  
by "Chuck Adams K7Q0" <adams@ticnet.com>
- 113) [49861] Re: Better CW  
by "Barry L. Geipel - AD6HR" <bgeipel@primenet.com>
- 114) [49862] Re: Better CW  
by Scott Howell <showell@hq.nasa.gov>

115) [49863] Re: CW Abbreviations [long]  
by Chris Trask <ctrask@primenet.com>  
116) [49864] Re: Better CW  
by GElam30092@aol.com  
117) [49865] Re: CW Abbreviations (Long)  
by REDSBOY@aol.com  
118) [49866] Re: Better CW  
by igeq100@iupui.edu  
119) [49867] Re: Radio Shack 10M Rig & Replies  
by "Randy Jouett" <rules@bellsouth.net>  
120) [49868]  
by Mark R Milburn <kq0i@juno.com>  
121) [49869] Missing Post  
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)  
122) [49870] Audio derived AGC  
by "Steven Weber" <kd1jv@moose.ncia.net>  
123) [49871] comment on Ten Tec Power Meter  
by "rohre" <rohre@arlut.utexas.edu>  
124) [49872] Cw whine & complain  
by ac5ez@webtv.net (Larry B)  
125) [49873] RE: Cw whine & complain  
by "Kory Hamzeh" <kory@avatar.com>  
126) [49874] Re: QRP vote  
by K2UD@aol.com  
127) [49875] Prosign BT  
by w4pj@w4bkx.ampr.org  
128) [49876] Re: USA Visit  
by "The One and Only!" <mitch96@pobox.com>  
129) [49877] prosigns  
by "Roy" <ab7ce@email.msn.com>  
130) [49878] Re: An answer, a thankyou, an apology and a backlasH...  
by Monte Stark <ku7y@dri.edu>  
131) [49879] RE: I have a ZM-1 kit to give away.  
by "Kory Hamzeh" <kory@avatar.com>  
132) [49880] Rare QLF [Was Re: Better CW]  
by w4pj@w4bkx.ampr.org  
133) [49881] 49er crystal  
by "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>  
134) [49882] Re: prosigns  
by Monte Stark <ku7y@dri.edu>  
135) [49883] Re: Rotten CW  
by "Nick Kennedy" <nkennedy@cswnet.com>  
136) [49884] Crystal Lattice Filter Design Article  
by "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>

-----  
Date: 8 Sep 1999 18:02:01 -0500

From: "rohre" <rohre@arlut.utexas.edu>  
To: qrp-l@lehigh.edu  
Subject: [49749] Comments on low Gap Titan mt.  
Message-ID: <n1275308751.31008@msmailgw1.arlut.utexas.edu>

Ah, the Gap Titan, my favorite current home antenna. (The one that stayed up!)

Mine was "temporarily mounted" as reported to the early days of this list. For testing- at six feet off the back yard, so we could walk under the counterpoise wire.

That was because that was the length of a TV mast snapped off in a long ago storm!

However, recent publication on the low mounting of antennas by Littlefield in "Communications Quarterly" has me thinking this is as low as you should go with the Gap or other vertical dipoles. He outlines some experiments that seem to show decreasing efficiency if you go low to the ground.

Now, as to guying, yes, it was sold without guy brackets, but nothing to stop you from using nylon lines to stabilize the basic Gap, which I did upon noting how heavy an antenna this is, with the triple wall tubing on the base section. I simply put some Wal Mart nylon rope up the antenna in between the linear decouplers attached to the main mast, in my case, below the feed. This lash up survived the straight line winds of the Jarrell TX tornado. Trees snapped off at the ground up and down my street then, with estimated 75 mph winds.

Now the real kicker is the temporary, and STILL there, base pole mounting I am using: Since the whole idea was to eventually move the antenna, I simply set the TV mast on the SURFACE of the ground, and pounded in a piece of 24 inch angle iron next to the mast, about half way. Then, I used some U bolt clamps to bolt the mast to the angle, with the pipe snug in the Vee formed by the iron. Other than tightening the bolts after wind storms, (which will make the Gap sway impressively), it has survived several blows. The nylon guys go to the fence and house, and must be tightened with weathering and wind. (And doves, who find roosting on them a delight!) {My doves are well fed, and the size of large pigeons, but that is another story}.

I think the one bag of concrete and a chain link fence corner pipe would do nicely for a permanent mount, unless you have very sandy soil, in which case the anchors, and more cement might be indicated.

The Gap has a lower perceived noise than other verticals, and I suspect this might be because the feed coax goes up inside the lower half of the dipole, in a waveguide beyond cutoff manner, which perhaps removes noise otherwise induced on the coax of ordinary base fed verticals. Several reviews have commented on the noise, and this was the one thing that

differs between Gap models and base fed verticals.

With any antenna, you should expect to have to check its safety each season, for wx does take a toll on all antenna installations.

72, Stuart K5KVH

-----  
Date: Wed, 8 Sep 1999 19:18:51 -5  
From: "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>  
To: osier <osier@northnet.org>, qrp-1@Lehigh.EDU  
Subject: [49750] Re: 2 watt resistors  
Message-ID: <199909082318.TAA03959@sparticus.bright.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

Metal Oxide resistors will work just fine. They are available from Mouser and Digikey....

Bill

> Hello All!!!!!!  
>  
> Looking for a source of 2 watt resistors for building attenuators....  
> resistors are then carbon types.....they were used in the Ten Tec  
> model 290  
> which is (sadly) no longer made.....  
>  
> Tnx es 73s  
>  
> George Osier , N2JNZ  
>

73 - Bill - N8ET  
Kanga US  
kanga@mail.bright.net  
<http://www.bright.net/~kanga/>  
419-423-4604

-----  
Date: Wed, 08 Sep 1999 19:17:03  
From: Robert McConnell <rmcconne@lightlink.com>  
To: DBarrett@creo.com



Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [49751] RE: Help for a friend  
Message-ID: <3.0.6.16.19990908191703.08778db6@pop.lightlink.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Sound isn't going to help. He needs software to decode morse code and display the text as he sends from a key connected to the serial port. He will also need an adapter that drives DCD, or another control line between -12 and +12 when he operates the key.

This could also be done on the parallel port, but I think it's a lot easier to write good interrupt routines for a serial port.

Bob McConnell  
N2SPP

At 09:59 AM 9/8/99 -0700, Dave Barrett wrote:  
>Check out this site, its got all the SoundBlaster based CW progs you could  
>wish for....  
>  
Dave VE7PCC Vancouver BC  
>Canada (Recumbenteer)  
><http://www.muenster.de/~welp/sb.htm>  
>

-----  
Date: Wed, 8 Sep 1999 19:22:46 -0400  
From: aa5yx@juno.com  
To: qrp-1@Lehigh.EDU  
Subject: [49752] Re: Best rigs  
Message-ID: <19990908.192248.3910.0.aa5yx@juno.com>

Yeah, they're fun alright. I recently made a "QRP micro-antenna" for mine that consists of a 35mm film cannister with a BNC connector mounted thru the bottom. The part of the BNC poking thru the cannister attaches to the antenna jack on the rig. On the other side (inside the cannister for storage) are three 23' 3" wires - 2 ground radials and the third wire is attached to the center pin of the BNC. Throw the "hot" wire into a tree, lay out the radials, attach the Whitbrook paddle and 9-AA cells and enjoy! The whole antenna fits inside the film cannister when stowed. The whole station \_easily\_ fits inside a ziplock bag for waterproof travel/camping.

For me, it is the simplicity of this type of set-up that re-kindles the magic of radio that I first discovered as a kid: to be able to talk to the world with a few penlight batteries. Amazing!

I just don't get that with a big ole Kenwood or Yaesu, know what I mean?!  
I have an SST for 40m on order and plan to make a micro-antenna for it.  
Now where's that Kodachrome?

John Harper AA5YX/2  
HW-9, OHR-100A/20m, NC40A, SST/30, NC20, SST/40 (pending)  
YashicaMat 124G Info Page: <http://home.att.net/~j..harper>

On Wed, 8 Sep 1999 15:20:08 -0600 "Roy" <ab7ce@email.msn.com> writes:  
>In my opinion a great, easy to build rig is being overlooked in all  
>this  
>talk which rig to build first, which is best, etc. The SST from  
>Wilderness  
>Radio. I put it together in one afternoon. Hooked it up and the first  
>QSO  
>was with Perth, Austrailia.

---

Get the Internet just the way you want it.  
Free software, free e-mail, and free Internet access for a month!  
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

---

Date: Wed, 8 Sep 1999 19:42:36 EDT  
From: K2UD@aol.com  
To: DOCROCK1T@aol.com  
Cc: qrp-l@lehigh.edu  
Subject: [49753] Re: Verboten subject???  
Message-ID: <f21939fe.25084e6c@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Ten-Tecs have been cussed and discussed (more the latter than the former) on this list. As with any radio, there seems to be a peak of postings about them at the time that they becomes available, while they are being built and later during the de-bugging phase. Then half a year later, you will see the occasional posting by the guy who finally found time in his schedule to build it!

I have not seen too many if any negative postings about the T-kits here. Let's face it, many of the QRP kits available are simple in design, low in parts count, near equal in specs (with some exceptions) and almost cost the same. It is hard to go wrong with any of them, perhaps the reason for many positive comments.

There will be the occasional dog, and you can bet that folks will tell you that they are dogs. Or in the case of one well-known QRP'er on the list, will NOT provide commentary on that rig 1.) to be nice, or 2.) to let others know in a "between the lines" way that it may be a dog. I'm sort of that way, if I can't say anything nice about it, I won't say much at all.

Let's hear from T-kit builders, what experience they have had with their rigs.

72

Howard Kraus, K2UD

-----  
Date: Wed, 8 Sep 1999 18:44:56 -0500  
From: "Charles Hamel" <cdhamel@pdq.net>  
To: <mgipe@reliablemeters.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [49754] Re: HTX-100 (or is it HTX-10?)  
Message-ID: <005901befa54\$2b716080\$2f0c76d8@cdhamel>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I was excited about this radio, But No CW No ME!!

Charles  
KC5DXQ

-----  
Date: Wed, 08 Sep 1999 18:49:35 -0500  
From: mjfitz@uswest.net  
To: QRP-L Posts <qrp-1@LEHIGH.EDU>  
Subject: [49755] 2W Resistors/Load  
Message-ID: <37D6F60F.20306D80@uswest.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Gals/Guys...

I know Surplus Sales of Nebraska has 2 W carbon resistors...made a load out of four 200 ohm 2-watters a couple of years ago...be prepared to pay for them though...seems like they were a couple of bucks apiece...but

still, it is a way to make a good compact 8-watt continuous load that is an honest 50 ohms with little inductance.

I clipped the leads off to 1/8" or so and mounted four of them between two pieces of single-sided board about 1" X 3" or so with a little bit of space between them laterally for circulation (air) to help keep them cool (copper side out). Mounted an S0-239 on one of the pieces...saw this in some qrp cookbook I believe...not an original idea here.

It has always done me right for a small qrp load...will take 10 W or maybe more for a short time, naturally.

<http://www.surplussales.com/index.html>

Mike NOMF

-----  
Date: Thu, 09 Sep 1999 00:01:20 GMT  
From: mwattcpa@earthlink.net (Marty Watt)  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [49756] Re: Verboten subject???  
Message-ID: <37d6f1a0.163892525@mail.earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: quoted-printable

On Wed, 8 Sep 1999 15:50:48 EDT, DOCROCK1T@aol.com wrote:

>TenTec has a fairly complete line of equipment to provide QRPers. If =  
the=20  
>gear I purchased is any indication, I believe they have a good product =  
line. =20  
>Possibly, someone could let me know why there is no TenTec discussion. =20

Mostly because the QRP offerings from TenTec are pretty new ... a year or= so  
if I remember correctly. Not really enough time to have several QRPers =  
play  
with the project.

=46eel free to do a review of the kit for us. How well were the =  
instructions  
written? Were the parts complete? Did it go together easily, or did you  
encounter problems? Did you learn something about the design of the rig?  
What makes the rig (in your opinion, of course) unique? Particularly =  
compared

with other QRP rigs and kits. For example, TenTec is known for its =  
wonderful  
receivers and smooth QSK. Does the kit offer any insights into those  
strengths? Does it live up to the reputation of the commercially =  
constructed  
equipment?

These are just starting points, that may hopefully generate some =  
discussion.  
TenTec commercial stuff used to be discussed quite a bit, but then TenTec  
discontinued the ARG0 556 ... and a lot of us lost any reason to discuss =  
them  
on QRP-L. Perhaps they have now returned in full force to the QRP fold.

Disclaimer: TenTec's marketing guy (Scott, W4PA) is the leader of the  
Tennessee Contest Group, of which I am an active member. Guess that =  
might  
make me biased toward TenTec in some camps ... :)

--  
Marty, N5NW

-----=  
-----  
Memphis, Tennessee =  
<http://home.earthlink.net/~mwattcpa>

-----  
Date: Wed, 8 Sep 1999 18:13:22 -0600  
From: "Carl Zmola" <zmola@campbellsci.com>  
To: qrp-l@lehigh.edu  
Subject: [49757] (Fwd) Re: Verboten subject???  
Message-ID: <19990909001016422.AAA228@carl-zmola>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

K2UD@aol.com wrote:  
> Ten-Tecs have been cussed and discussed (more the latter than the former) on  
> this list. As with any radio, there seems to be a peak of postings about  
> them at the time that they become available, while they are being built and  
> later during the de-bugging phase. Then half a year later, you will see the  
> occasional posting by the guy who finally found time in his schedule to build  
> it!

The TenTec is not a simple kit. It also could have better  
diagnostics in certain of the build phases. RF receive through low

level audio output is all done at one time without a checkpoint. It includes a 4pole filter there too.

I assume if I ever sit down to trouble shoot it and get it going, I will be thrilled with it's performance.

It just wasn't the best kit for me to start on.

I've taken some time off the 40M tentec traceiver to build a vectronics 30M transmitter, receiver pair. Just to get some positive experiance.

Carl  
AC7BB

> I have not seen too many if any negative postings about the T-kits here.  
> Let's face it, many of the QRP kits available are simple in design, low in  
> parts count, near equal in specs (with some exceptions) and almost cost the  
> same. It is hard to go wrong with any of them, perhaps the reason for many  
> positive comments.  
>  
> There will be the occasional dog, and you can bet that folks will tell you  
> that they are dogs. Or in the case of one well-known QRPer on the list, will  
> NOT provide commentary on that rig 1.) to be nice, or 2.) to let others know  
> in a "between the lines" way that it may be a dog. I'm sort of that way, if  
> I can't say anything nice about it, I won't say much at all.  
>  
> Let's hear from T-kit builders, what experience they have had with their rigs.  
>  
> 72  
>  
> Howard Kraus, K2UD

Carl  
zmola@campbellsci.com

-----  
Date: 8 Sep 1999 19:19:05 LOC  
From: <SFIKE@twa.com>  
To: <qrp-l@lehigh.edu>  
Subject: [49758] QRP antenna  
Message-ID: <19990908.191905.SFIKE@twa.com>

I am considering putting up an end-fed random-length longwire antenna (about

300' long) in a nearby stand of tree's near the apartment I live in. I am limited in the type of low profile antenna's I can put up in my current living situation. The only other type of antenna I could possibly put up outside is an inverted-L, judging by the number of tree's I have available to me and their location. Dipoles are out! The mowing crew would run over and into the coax coming down in the middle of nowhere everytime, and that's no good! I think these are the only two types of antennas I could erect... All others would have to go indoors or scrunched up on my tiny porch (Bilal Isotron or a helical "slinky" dipole are a possibility here). I think I could get a fair amount of gain out of the longwire but I may be able to tune the inverted L for a specific band (20,30 or possibly as large as 40 meters?) and get just as good performance with the inverted-L. For running a single band QRP transceiver (which I have yet to build), I am wondering which antenna would yield the best performance? I seem to be limited to just end fed wire antenna's. Are there any others I am forgetting?

Any thoughts out there?

Thanks in advance to all who reply.

72

Scott

-----  
Date: Wed, 08 Sep 1999 17:28:26 -0700  
From: "M. Monninger" <markem@primenet.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [49759] Re: Battery Float Charger  
Message-ID: <3.0.6.32.19990908172826.008611e0@pop.primenet.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

To follow up on this, since there seems to be some interest...

Harbor Freight has a web site and you can order stuff on-line at

<http://www.harborfreight.com/>

The float charger is at

<http://www.harborfreight.com/cpi/taf/DisplayItem.taf?ItemNumber=37137>

If you want to call then, they're at 800-423-2567. The charger is item #37137-5VGA. Price on the web page is \$7.49.

Usual disclaimer applies...no connection with them except as a customer. Just passing along some info for folks on the list.

Plus, I take no responsibility for your finding all sorts of neat toys

there and spending way too much money and getting in trouble with your spouse... ; -)

73... Mark AA7TA

-----  
Date: Wed, 8 Sep 1999 20:30:15 -0400 (EDT)  
From: James Skalski <jskalski@localnet.com>  
To: mjfitz@uswest.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [49760] 2W Resistors/Load parts offer  
Message-ID:  
<Pine.LNX.4.04.9909082008590.3365-100000@valhalla.valhalla.buffalo.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

73,

Jim

On Wed, 8 Sep 1999 mj wrote:

> Gals/Guys...  
> I know Surplus Sales of Nebraska has 2 W carb...  
> load that is an honest 50 ohms with little inductance.  
> I clipped the leads off to 1/8" or so and mounted four  
> of them between two pieces of single-sided board about 1 X  
> 3" or so with a little bit of space between them laterally  
> for circulation (air) to help keep them cool (copper side

If anybody is interested in making dummy loads out of 2w carbon composition resistors; this may help.

I have a package with 8- 2w x100ohm resistors with instructions on making a 50 ohm dummy load (16watt dissipation). It is packed in a zip lock bag in a padded shipping envelope. I can pick up more padded envelopes and get some kids to stuff the mailers. These have to be hand stamped at the post office and they have a surcharge for being a thick envelope ?!?

I will include some scraps of pc board material that you can use to make a



"resistor sandwich" as per the instructions. This makes a nice compact dummy load.

price shipped \$3. I think I have 150 of these so please check with me before sending anything. There is only one thing worse than cashing a \$3 check and that is returning one. :-)

Jim n2go

-----  
Date: Wed, 08 Sep 1999 20:31:42 -0400  
From: Paul Womble <pwomble1@tampabay.rr.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [49761] SLV info  
Message-ID: <37D6FFEE.7F5B6EA7@tampabay.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I am working on my SLV built from the W6MMA kit. Can anyone who has this antenna tell me the lengths of the radiating elements for the different bands you ended up using?

Thanks  
Paul AJ4Y

--  
AJ4Y info page:  
[www.qsl.net/aj4y](http://www.qsl.net/aj4y)  
Polk County Chapter American Red Cross:  
[www.redcross.org/fl/polkcounty](http://www.redcross.org/fl/polkcounty)  
Lakeland Amateur Radio Club:  
[www.qsl.net/k4lk1](http://www.qsl.net/k4lk1)

-----  
Date: Wed, 8 Sep 1999 20:33:09 -0400  
From: Jerry Albertin <jalbertin@juno.com>  
To: qrp-1@lehigh.edu  
Subject: [49762] FS: MFJ portable power pack and 40m dipole  
Message-ID: <19990908.203310.13118.0.JAlbertin@juno.com>

It's time to tidy up the shack as my portable plans did not materialize:

MFJ-4114 portable rechargeable power pack in like new condition. Includes AC adapter, 12 NiCad batteries and documentation. Batteries are less than 6 months old and charged once to test their output. (They tested good and cost about \$40 new) \$65 plus shipping (6 lb from 12010 zip)

MFJ portable folded dipole for 40 meters. It is still in the original packaging. I never used it so it has never seen the outdoors. Includes documentation \$22 plus shipping. (2 lbs from 12010 zip)

All the above items were purchased new from AES about 6 months ago

Jerry kg2jff

-----  
Get the Internet just the way you want it.  
Free software, free e-mail, and free Internet access for a month!  
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

-----  
Date: Wed, 8 Sep 1999 20:28:24 +0100  
From: "Bob Duckworth" <wb4mnf@atl.org>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [49763] Have A&A 30m transceiver and TenTec 509 Want soem BA stuff, tubes etc.  
Message-ID: <199909090035.UAA16532@hat-trick.atl.org>

I know some of you guys are packrats and/or have other radio interests besides the Squeaky little QRPeanuts.

So, I'm offering up some querp dibris for other radio morsela and flakes.

Have: a Ten Tec 509 with new dial cord and a A&A 30m txcvr.

Want:

- set of finals and driver for Drake TR4
- coils for National SW3 and FB7 and FB7 preselector (RF E, osc D det D and any for wavelengths beyond 160m.
- triode transmitting tubes and sockets from 20/s and early 30's i.e. 10
- homebrew transmitter or factory built transmitter from 20's and early 30's
- HBR 8 RX
- ??? you get the idea

Date: Wed, 8 Sep 1999 18:35:22 -0600  
From: "Roy" <ab7ce@email.msn.com>  
To: <ki6ds@dpol.k12.ca.us>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [49764] Re: Repost "What Kit to Build #6"  
Message-ID: <009501befa5b\$4f7ccee0\$1bc7fad0@pavilion>

-----Original Message-----

From: Hendricks, Doug <ki6ds@dpol.k12.ca.us>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Date: Wednesday, September 08, 1999 12:04 PM  
Subject: Repost "What Kit to Build #6"

>tive, and the opposite sideband rejection is excellent.  
>You can be right next to a strong station and never hear it. Sorry  
Doug, Your glowing sales pitch report of the NC20 has alot of comments that  
can be open to different opinion but this statement just ain't so. A lady  
ham who lives two miles  
from here has a ten tec with a kilowatt. she gets on 20mtrs a few times a  
week and does CW with her kids in Alaska and Arizona. Her signal is all over  
the NC20. Its also all over the Sierra, And the IC706. The TS440 and the K2  
handle it the best and equally as far as I can tell. But let there be no  
doubt, wherever you are tuned on the NC20 Shes Queen of the band. Roy AB7CE

-----  
Date: Wed, 08 Sep 1999 20:45:42 -0400  
From: osier <osier@northnet.org>  
To: qrp-1@lehigh.EDU  
Subject: [49765] 2W resistor info.....  
Message-ID: <37D70336.AF7E4DEF@northnet.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hello All!!!!!!

Many thanks for all who responded !!!!!!!!!!!  
There is never a shortage of help in this group ..fine bunch and glad  
to be a part !!!!!

72/73s and Mni Tnx !!!!!!!

George , N2JNZ/QRPPP

-----  
Date: Wed, 08 Sep 1999 17:46:21 -0700  
From: "Frederick R. Ramont" <fredr@95net.com>  
To: qrp-1@Lehigh.EDU  
Subject: [49766] pixie-2  
Message-ID: <37D7035D.528DE6DB@95net.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Just put together a pixie-2 and all I get out of it is a lough buzzing  
or oscillation from the earphone  
Fred

-----  
Date: Wed, 8 Sep 1999 21:09:34 -0400  
From: "duane" <duane@flinet.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [49767] Re: FCC's ULS system  
Message-ID: <000e01befa5f\$fb8e59c0\$af180ed0@duane>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Regarding the ULS.

Do I have to register?

Can I wait until my ticket has to be re-newed 8 years from now ?  
If I can not wait until my ham ticket has to be renewed how long is my  
current ticket Valid for ? Its currently good for 8 more years.

anyone with any answers please advise me by personal email

thanks

duane@flinet.com

Qrp1# 710

----- Original Message -----

From: Rich Wilkerson <richqrp@home.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Sent: Wednesday, September 08, 1999 6:00 PM  
Subject: Re: FCC's ULS system

-----  
Date: Wed, 8 Sep 1999 19:05:48 -0600  
From: "Roy" <ab7ce@email.msn.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [49768] Ten Tec T-kits  
Message-ID: <00c501befa5f\$972b7f80\$1bc7fad0@pavilion>

All performance factors aside, It seems to me Ten Tec's biggest failing is features that all the other rigs have standard. Boy those guys in Tennessee know how to build a case though. roy ab7ce

-----  
Date: Wed, 8 Sep 1999 21:08:26 -0400  
From: "Tim Cook" <timcook@erinet.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [49769] MI Sprint contest Question  
Message-ID: <022201befa5f\$d2a94ba0\$8f735acf@timcook.erinet.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

The rules for the Labor day Spring state US and Canada DO NOT count as countries, Does this mean that HI and AK also do not count? I thought HI and AK counted as separate countries in most contests... Maybe I'm dreaming or wishing..... hi hi.....

thanks  
tim

-----  
Date: Wed, 8 Sep 1999 21:26:55 -0400  
From: "Perley Urquhart" <n1yuk@nemain.com>  
To: "QRP-L" <qrp-l@lehigh.edu>  
Subject: [49770] FS  
Message-ID: <017901befa62\$67d7fda0\$997461ce@urquhart>  
MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Have a surplus Heathkit HM-2102 wattmeter. Condition a 9. Haven't tried it, found out it is a VHF model, not HF. Sell for my cost from ebay. Also a Mirage MP-1 wattmeter. Scales, 25, 200, 2000 watts. Very good condition and works. Takes a 9 volt battery internally. Email me if interested.  
Perley, N1YUK

-----  
Date: Wed, 08 Sep 1999 19:42:05 MDT  
From: "Jerry McCollom W0MC" <w0mc@hotmail.com>  
To: qrp-1@lehigh.edu  
Subject: [49771] FS: MFJ 9040 40m QRP Transciever+Keyer+CW Filter  
Message-ID: <19990909014206.94904.qmail@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

FS: MFJ 9040 40m QRP Transciever  
+ MFJ 412 Iambic Keyer  
+ MFJ 726 CW Filter

You can check out the full details at:

< <http://www.mfjenterprises.com/transceivers/mfj9040.html> >

Its clean and in fine shape, I just notice a bit of wear on the "0" of the Off label. A great little radio that covers all of the 40m CW band.

A steal at \$135 shipped!

72,

de Jerry W0MC                    QTH Fort Collins, CO  
w0mc@hotmail.com                QRP-L #800

-----  
Get Your Private, Free Email at <http://www.hotmail.com>  
-----

Date: Wed, 8 Sep 1999 21:47:04 -0400  
From: "Harry Hurst" <hhurst@delaware.infi.net>  
To: <ab7ce@email.msn.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [49772] RE: Ten Tec T-kits  
Message-ID: <000001befa65\$37b062e0\$cc30fcd1@upstairs>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

It's a good solid radio, but it's last year's good solid radio!

-----  
Date: Wed, 08 Sep 1999 18:53:34 -0700  
From: "Frederick R. Ramont" <fredr@95net.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [49773] Re: pixie-2  
Message-ID: <37D7131E.B28DC21B@95net.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

The L2 wasn't listed on th parts sheet but there was a spot for an L2 to go whatever it's value was.. I have tried everything I can think oh to get it working.

This is the kind of think tank discourages those that are on a fixed income and disabled. You trust that the thing will at least work and supply some amount od enjoyment. No enjoyment and less money left to buy something else.

Fred

"Frederick R. Ramont" wrote:

> Just put together a pixie-2 and all I get out of it is a loug buzzing  
> or oscillation from the earphone  
> Fred

-----  
Date: Wed, 8 Sep 1999 21:01:37 -0500  
From: "Charles Hamel" <cdhamel@pdq.net>  
To: "QRP-L" <qrp-l@Lehigh.EDU>  
Subject: [49774] DSW-20  
Message-ID: <001901befa67\$42d23340\$2f0c76d8@cdhamel>  
MIME-Version: 1.0  
Content-Type: text/plain;

charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi again,

Another question on the construction of the DSW-20.

I am at the point of installing the 4 pin locking headers (J1 & J2).

Am I correct in installing this part with the pins toward the edge of the board and the plastic flap towards the 18 pin IC??

Thanks again

Charles

-----  
Date: Wed, 08 Sep 1999 19:06:45 -0700  
From: "Frederick R. Ramont" <fredr@95net.com>  
To: qrp-l@Lehigh.EDU  
Subject: [49775] Pixie 2  
Message-ID: <37D71635.DCA6ECD4@95net.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Just put together a pixie-2 and all I get out of it is a loud buzzing or oscillation from the earphone  
Fred

-----  
Date: Wed, 8 Sep 1999 21:05:11 -0500  
From: k5zty@juno.com  
To: qrp-l@lehigh.edu, hqrp@stevens.com, qrp-canada@lists.gfpn.sk.ca  
Subject: [49776] FOX HUNT TEAM PLAQUE  
Message-ID: <19990908.210956.7294.3.k5zty@juno.com>

Tally Ho all y'all fox hunters,

I finally got some pictures made of the fox hunt team plaque along with a picture of the Houston Hounds that won it last year. If you are interested in seeing what you



are competing for in the 'Team Event' of the fox hunt look at this web site.

[www.texasinfo.net/fox](http://www.texasinfo.net/fox)

There was a twisted chain of events getting the plaque to Houston, but it finally

got here and we( The Houston Hounds) showed it off at the August meeting of the Northwest Amateur Radio Society in Houston.

Thanks again to the QRP-CANADA group for sponsoring the beautiful plaque.

The Houston Hounds will be going all out to keep it here in Houston again this year.

Bill, K5ZTY

-----

Date: Wed, 08 Sep 1999 19:30:11 -0700

From: Phil Wheeler <w7ox@mindspring.com>

To: cdhamel@pdq.net

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [49777] Re: DSW-20

Message-ID: <37D71BB3.C6BE3D0D@mindspring.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

I think not. The plastic locking "flap" is the small rectangle next to the numbers 1 2 3 4 on page 9 of the manual.

Phil

Charles Hamel wrote:

>

> Hi again,

>

> Another question on the construction of the DSW-20.

>

> I am at the point of installing the 4 pin locking headers (J1 & J2).

>

> Am I correct in installing this part with the pins toward the edge of the

> board and the plastic flap towards the 18 pin IC??

>

> Thanks again

>

> Charles

-----

Date: Wed, 8 Sep 1999 22:47:49 EDT

From: N7YA@aol.com  
To: qrp-1@lehigh.edu  
Subject: [49778] Re: QRP DXCC  
Message-ID: <9b1778df.250879d5@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

In a message dated 9/8/99 12:19:18 PM Pacific Daylight Time,  
osier@northnet.org writes:

<< .Im not saying  
the ARRL should have the endorsement but just stating to some of us it  
would be a nice fixture on the certificate. >>

Heres my one and only post on this. the whole idea of the DXCC award is to confirm that you have indeed worked at least 100 different entities. now the confusing part for me was also indirectly pointed out by Ed in an earlier post. He said that it is not an award based on power output, ill accept that. but if im not mistaken (and i may be), should it be based on mode or how many bands you worked 100 on?? there are several different DXCC awards given...CW, SSB, i think theres one for RTTY. and also the VUCC. there are endorsements for 160 and 5 band DXCC. Does any of this really matter? you've still got at least 100, right? and those folks who have achieved the above levels should definately be recognized for thier accomplishment.

If all of these things are valid, then why not just an endorsement for the hams who are generally the ones keeping the early days of homebrewing and emergency readiness alive. QRP operators are the only ones that i know of that will build a radio into a mint tin, build a key out of scraps, build a tuner from a kit, throw it all into a backpack with some wire and a battery then jump on a mountain bike, kayak, hike or drive to some remote place and still have fun!!

No demands for green stamps for a card, no howling angry pileups, no egomaniacs...just grassroots radio. just friends enjoying a nice conversation with low power.

And when one of these adventurers manages to make 2 way contact with 100 countries, and has the cards to prove it....who would it hurt to recognize that with an endorsement sticker?? Im not talking anyone down...but how hard is it to work 100 or 200 countries with a huge beam and a KW? if you do...great! but if you do it with a couple of watts...isnt that worth a little sticker? would it kill the ARRL bank roll that badly?

Well, i dont know how much of a right i have to even comment on this since i am no longer an ARRL member, its just some thoughts ive always had.

73/72...Adam, N7YA

-----

Date: Wed, 8 Sep 1999 22:03:04 -0500 (CDT)  
From: ac5ez@webtv.net (Larry B)  
To: qrp-1@lehigh.EDU  
Subject: [49779] Grass roots radio  
Message-ID: <13510-37D72368-162@postoffice-111.bryant.webtv.net>  
Content-Disposition: Inline  
Content-Type: Text/Plain; Charset=US-ASCII  
Content-Transfer-Encoding: 7Bit  
MIME-Version: 1.0 (WebTV)

Thats a great description of qrp !

-----  
Date: Wed, 8 Sep 1999 20:16:00 -0700  
From: "al dawkins" <alk0frp@earthlink.net>  
To: <wa4dou@usa.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [49780] Re: Grounding for lightning  
Message-ID: <007f01befa71\$a5f81520\$f202f5d1@adawkins>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I have a very good ground system. Tower ground rod 8 ft tied to rods at the base of the tower. Plus a10 copper pipe outside the shack window. PLUS tied to electrical and the copper water system.  
I have a measured less than (1/4) .25 ohms in good clay soil. Well not so good in other aspects as its bentinyte which expands and shift houses and is a rear pain to dig. its close to concrete when you have to dig in it.  
I still got a hit this summer but not a direct hit, it was a proximity hit that took out my band switching diodes in the front end of the receiver. Its wild when you hear 500 khz to 30 mhz all at once on the front end. I was home that weekend and normally ground all antennas and switch the rig to a grounded position when I leave to go on the rode. BUT I was home and in the back yard when the strike hit. I could feel it in my face as it struck. So a good ground may not be the cure-all for every situation.  
Al K0FRP

----- Original Message -----  
From: Roy Lincoln <wa4dou@usa.net>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Sent: Wednesday, September 08, 1999 8:20 AM  
Subject: Grounding for lightning

Hi Gang,

I have a tidbit that i would like to share with the list. I don't think this is a subject that interests many hams ,based on a recent post that i made, and the relatively few responses i got.However this ought to rate high with every ham who has outdoor antennas, especially tower/antenna combos.

Today my local electric utility came and installed "whole house" surge protection under the service entrance meter. (Luckily i was home taking a few days off and could visit with them). Their pitch was that i needed to have a ground under 25 ohms in order for it to be relatively effective. They measured my ground resistance with just the 8 ft. rod that grounds the service under the meter. Then i connected my ground system in the backyard and the resistance was between 2.5 and 3 ohms.

Polyphaser says that in order for a ground system to be effective against lightning, the resistance should be between 5 and 10 ohms and "ideally" <5. Some things that have a bearing on this are that tropical storm Dennis dumped 7 " of rain here over the labor day weekend. The soil is saturated in the upper crust of the ground, no doubt enhancing the ground. Over much of the summer, there was very little moisture in this upper crust. So my ground system resistance , naturally, will vary along with this moisture. I have no idea what range to expect that it could vary over but it seems reasonable that it might be a range of 100-200%, thus 2.5-10 ohms perhaps.

My ground is composed of 650 ft. of #2 solid copper wire, exothermically welded to 47 ground rods, some going to a depth of 20 ft., 15 ft. and most going to 8-10 ft.

Reducing the number of rods by a factor of 2 should roughly increase the resistance about double.

Since soil conductivity varies so widely around the country, it is impossible to say how these results would vary geographically. None the less, i thought i would share with you my experience in the sandy, loamy central coastal plains of eastern N.Carolina.

73 to all-Roy Lincoln WA4DOU Elm City, N.C.

---

Get free email and a permanent address at <http://www.netaddress.com/?N=1>

-----  
Date: 8 Sep 1999 22:27:31 LOC

From: <SFIKE@twa.com>  
To: <qrp-1@lehigh.edu>  
Subject: [49781] QRP vote  
Message-ID: <19990908.222731.SFIKE@twa.com>

I read a posting about a week ago that somebody hosted a voting contest for the best QRP rig. I don't suppose that individual would care to post the results of the vote, assuming all the votes have stopped trickling in by now. If not, I may consider hosting such a vote myself (gulp! :o ) if I can get enough people interested. The results of the vote may subside some of the current debating that seems to be clogging the bandwidth. Besides, wouldn't we all like to know wich rig is tops?!

What say?!

Scott

72

-----

Date: Wed, 8 Sep 1999 20:09:40 -0700  
From: Doug Hendricks <ki6ds@dospalos.org>  
To: "'qrp-1@lehigh.edu'" <qrp-1@lehigh.edu>  
Subject: [49782] Repost "Which Kit to Buy, #7"  
Message-ID: <01BEFA39.AF1F5A60@dialup-27.dospalos.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Wow, this one is really interesting, yet I find it easy to make my choice. Now, you have built the range of kits, you have confidence, tools, skill and you want to build that "ALL EVERYTHING KIT" of your dreams. You know, the one that does it all in one box. My choice here is the K2 from Elecraft Radio, and I don't think it is a surprise to anyone.

The K2 from the team of Eric Swartz and Wayne Burdick is selling like hot cakes. They have shipped over 500 kits, and that is quite a feat when you consider that it costs \$549 for the kit!! Yet hams all over the world are ordering this kit so fast that they can't keep up. There have been some serious delays in providing kits, but they are getting that worked out, (they are a new company you know). Eric told me last week that they are shipping fairly quickly now.

What does the K2 do? Here is the kit description from the Elecraft Web site.

EleCraft K2 160-10M CW/SSB Transceiver  
Product Description(4/23/99)

#### Easy to Build:

'No-wires' construction: most controls and connectors mount directly to PC boards.

Comprehensive user manual with step by step instructions and theory of operations.

Incremental assembly and test.

Modular, upgradeable.

No surface mount devices.

No specialized test equipment beyond a standard digital multi-meter is required for test and alignment. (Built in test.) The K2 even includes a built in general purpose frequency counter, volt meter and radio current drain meter.

Largest possible PC board pads and traces to simplify rework and repair.

Full documentation provided for user modifications.

K2 High Performance CW Base Unit, General Features:

Small, portable size. 2.9h x 7.8w x 8.2d inches.

Efficient 10-15 volt operation for home or field use.

Less than 110ma typical receive current (backlight off, low Ip mode, pre-amp off, headphones).

@200 ma typical receive current (high performance Ip mode)

Adjustable 0-10W PEP (via front panel menu).

Rugged, attractive custom enclosure.

Back-lit LCD display (backlight can be disabled).

160-10 meter ham band coverage, with some out of band overlap. (160 meters with 160m/RX Antenna option.)

PLL synthesized for low noise (no DDS spurs).

CW-only and SSB/CW (with SSB option).

Microprocessor controlled.

2 VFOs with split operation plus 10 memories.

Direct keypad entry of frequencies, memory channels and key parameters.

RIT and XIT.

Built-in speaker.

Headphone jack handles mono and stereo plugs

10 memories store Mode, VFO A/B, Split, RX filter, RX sideband (CW), etc.

Simple menu system for advanced settings. (Up to 2 menu functions can be assigned to the programmable front panel function keys.)

BNC antenna connector -- A QRP standard. (SO-239 on High Power option.)

Room for additional connectors on the rear panel for user modifications.

All options may be added at any time.

#### Receiver:

Double-balanced diode mixer for excellent front end dynamic range and IP3.

Ham Band bandpass RX/TX filtering, relay switched (for excellent IP2 on RX).

Preliminary K2 Performance Measurements (14MHz Typical Values)

MDS(dbm) IMDDR3(db) Ip3(dbm) Ip2(dbm) BDR(db)

-136/-131 96/97 +5/+10.7 +77/+78 125/133

XX/YY = preamp-on/preamp-off results; See K2 Performance Comparisons for more details.

RX pre-amp and attenuator. (Both switchable on/off.)  
Single conversion RX to 4.915 Mhz IF.  
Room for additional switchable IF crystal filters.  
Smooth, Fast attack, IF-derived AGC (no 'popping' on strong signals) with fast/slow decay. (AGC can also be turned off).  
IF gain adjust.  
Sharp IF crystal filtering helps prevents receiver overload from signals outside the RX passband. (Much better adjacent signal rejection (without AGC pumping) than the switched capacitor audio only filtering of other rigs.)  
1 Khz per knob revolution for fine tuning; also 10 and 100 Khz per revolution.  
10 Hz display resolution (7 digit).  
Bar-graph S/Rf OUT/ALC meter.  
CW Features:  
Full break-in CW.  
Built in keyer with 10 programmable memories and both popular iambic modes A and B.  
Sharp, variable bandwidth CW crystal filter (250 - 1750 Hz).  
Options for a fixed-bandwidth narrow crystal filter or a wide-bandwidth crystal filter for tuning the band.  
Adjustable RX CW pitch with tracking TX side tone.  
Selectable opposite sideband RX for QRM reduction.  
Normal / Reverse paddle setting for Dot / Dash; Manual Key setting.  
Efficient transmitter operation.

Whew!! That is a lot of radio!! 9 bands for \$549!! Here is the pricing information.

#### K2 and Options Pricing

K2 HF Transceiver (CW) \$549.00  
SSB Option \$ 79.00  
160M / 2nd RX Ant. \$ 29.00  
Noise Blanker \$ 29.00  
Internal Auto Tuner \$125.00  
Internal 2.9AH Battery with Bracket Kit  
(The K2 uses a PS-1229 Sealed Gel-Cell) \$ 79.00  
Battery Bracket Kit Only \$ 39.00  
Replacement 2.9 AH Battery \$ 40.00  
K2 Manual (Note: .pdf version free via web download) \$ 29.00

Let's look at the other entries in this class, the Sierra, The OHR500 and the Hands GQ2000.

First the Hands GQ2000 -

Information from web page: GQ2000 CW Transceiver 5w Starter kit 80/20

Discrete commercial 6 pole xtal IF filter Option to cover all HF bands PLL and DDS LO options for high stability 5 or 20 watt PA options Full QSK 98 db

dynamic rx range

The GQ2000 is a high performance multiband cw transceiver based on the very successful GQ mono-banders. Designed as a project for the GQRP club magazine Sprat, the tcvr allows a one or two band starter configuration through to a full ten band rig.

The base kit comprises of the IF2000, RF2000, AMP2 and the RTX-VF055 or the optional DDS2. This gives a 5w 80/20 mtrs qsk tcvr with qsk changeover.

Alternatively, adding the RTX-AMP and DC10 gives a qsk 20 watt tcvr. The transceiver can be put on any of the other HF bands by adding the RTX PLL system and populating the required band filters on the RF2000.

The Intermediate frequency is at 9mhz and features a dedicated cw xtal filter by Network Sciences Inc. This discreet 50 Ohm 6 pole filter has 500hz bandwidth with an excellent shape factor and is a perfect match for the 50 Ohm RF2000 front end. A single MC1350p is used as an IF amplifier followed by a NE602 or 612 as a product detector.

Audio from the detector is pre-amplified by a LM351 op-amp - this makes up the insertion loss of the following ele passive audio filter. This has a top cut of 1khz and removes all traces of audio hiss. The audio pa is a TDA2003, although a 20watt device, it is considerably under-run in this application and gives genuine hi-fi quality. The module also contains the QSK timing circuit and a keyed CIO for the tx section. The CIO is followed by 5 element LPF to remove any harmonic content.

What does this kit cost? I could not figure it out from the Kanga US web page. As near as I can tell, the 2 band 20/80 meter starter kit, without the DDS VFO is \$450. If you are interested in the full 10 band kit, then you need to contact Bill Kelsey at Kanga for prices. Since I am not sure of the pricing, I did not consider this kit in the super kit category, but I did want to mention that it is available to be complete. I do imagine that it will cost more than the \$549 of the K2, and on that alone, I would pick the K2.

The next entry is the OHR 500 from Morse Express. Here is the description from their web page.

The OHR 500 CW Transceiver Kit

Optional Iambic Keyer: \$39.95

The Oak Hills Research OHR500 is a five band CW transceiver that covers 150 KHz of 80, 40, 30, 20 and 15M bands. Some of the features include a new quieter single signal superhet receiver, diode ring mixer, new ultra stable pre-mix VFO providing high side L.O. injection. The VFO is tuned with a new high quality double bearing air variable cap. Additional features include RIT, four pole crystal filter, four pole audio filter switchable from front panel, TX power out control on front panel. The receiver includes a high performance AGC circuit which can be turned off at front panel, RF gain control, true sinewave sidetone with separate frequency and level controls, room filling audio at rear panel speaker jack. A scope is NOT required for alignment. We have included on-board RF probes so you can use your DMM and



frequency counter for alignment. The L.O. signal is available at a rear panel jack for use with the DD-1 digital display. Chassis is pre-punched for optional keyer kit. The transmitter provides 4-5 watts out on all bands except 15M which is 3-3.5 watts. The transmitter also has a silky smooth QSK circuit. The transceiver operates on 12 - 13.6VDC. The current drain on RX is 270mA and 1A on transmit. The completed transceiver measures (HWD) 4" x 8 1/4" x 8 1/4" and weighs 3.8 pounds. The kit is complete with cabinet, three high quality silkscreened PCB's, all components and instructions.

The cost of this kit is \$349.95, but it does not come with a keyer or frequency display. The keyer is \$39.95 and the frequency display is \$74.95, and I consider those a necessity, so the kit is now \$464.85. With that you get 5 bands, with the K2 you get 9, plus many, many more features for the extra \$85. My vote is for the K2.

Now the Wilderness Sierra. Here is the description from their web page.  
The Sierra

The Sierra is the only compact, low-current, multiband transceiver kit available. Designed by N6KR and extensively field-tested by the NorCal QRP Club, the Sierra has been completely upgraded for Wilderness Radio--including a painted and silk-screened enclosure and improved performance on both transmit and receive. We've also added ABX -- an adjustable bandpass crystal filter.

The Sierra uses plug-in band modules for 80, 40, 30, 20, 17 and 15 meters. (You can build modules for the other bands by purchasing additional band module PC boards.) Since there is no band switch, and because all controls and connectors are mounted on the main board, there's virtually no chassis wiring.

For the portable operator, the Sierra offers very low receive-mode current drain: only 35mA. The superhet receiver has excellent AGC range and sensitivity, RIT, and a 400Hz crystal filter. Using ABX, you can vary the crystal filter's 6dB passband from about 150 to 1500Hz to adapt to operating conditions. Transmit power is about two watts. QSK is fast and clean. In addition, there's built-in flexibility: extra panel and interior space that invites customization. You can even store up to four band modules inside the cabinet. Quick-release latches on either side of the cabinet provide easy access to internal controls and for changing band modules.

Sierra shown with KC2 (option) installed

For more details on the original NorCal version of the Sierra, refer to the article by N6KR in the 1996 ARRL Handbook.

#### Sierra Specifications

Note: Power output will vary somewhat on different bands and with different settings of the drive control. Unless otherwise noted, measurements were made with a 13.8V supply and 50 load at the antenna jack.

#### General

Size: Cabinet: 2.6"(H)x6.3"(W)x5.3"(D) Overall: 2.8"(H)x6.6"(W)x7.0"(D) Band Module: 1.25"(H)x4.0"(W) Weight: Approx. 2 lbs Power Requirements: 10 to 15VDC Receive: 35mA; 35-70mA when using speaker Transmit: 275-350mA at 2 watts (typical) Frequency Ranges: 3.5-3.65, 7.-7.15, 10.0-10.15, 14.0-14.15, 18.0-18.15, 21.0-21.15 VFO operating range: 2.935 to 3.085 MHz, w/8:1 vernier Calibration: 5KHz increments, readable to 1kHz Drift: < 100Hz/hour after 30 min. warm-up (RIT off, 25 C, top cover on) Transmitter Power Output: 1.5 to 3 watts, depending on band Spurious products: -40dB or better (typical) Final Amp efficiency: 60-75% (typical) Transmit offset: 400-1000 Hz, adjustable Transmit-receive delay: 0.3 seconds nominal; adjustable Receiver Sensitivity: Better than 0.5uV for 10dB S+N/N Selectivity: 150Hz wide to 1500Hz wide at -6dB using built-in ABX control; w/ ABX control at 50%: -6dB @400Hz, -32dB @ 1KHz AGC range: 60 to 80 dB (typical) I.F.: 4.915MHz; 4-pole Cohn Xtal filter plus single-crystal filter after I.F. amp R.I.T. Range: +/- 2KHz nominal (can be increased) Audio output: 0.3 watts max into 8 to 32 load

Now for the pricing:

The basic Sierra kit is \$215, plus shipping (\$7 U.S., \$12 Canada/Mexico, \$20 DX).

Package prices are as follows:

\$245 with 1 band module

\$269 with 2 band modules

\$295 with 3 band modules

\$369 with all 6 band modules

Call for the 9 band price

\$7 shipping US, \$12 CANADA AND MEXICO and \$20 DX.

Band Module Kits are available at \$31.00 + \$3 shipping US/CAN/MEX and \$5 DX.

Band module PC boards also available separately at \$9.50 + \$3 shipping US/CAN/MEX and \$5 DX.

Again we have to do some figuring to get the 9 band price. Here is what I come up with. The price difference between the 6 band module and the 3 band module kit is \$74, so I assume that the same would apply to the 6 and 9 band module kit. I may be wrong on this but I bet it is pretty close. The 6 band kit is \$369 and if we add \$74 to the price for the extra 3 bands on the 9 band kit, we get \$443. But we are not done yet. That does not include the KC-2 keyer/frequency counter/wattmeter/SWR meter option. That adds \$75 to the kit plus another \$15 for the drilled and labeled front panel that fits the KC-2. So now we are at \$533 for the 9 Band Sierra with KC-2 options. No contest here, the winner is the K2 at \$549.

But what if we compare the 6 band rig instead of the 9 band? You drop the price \$74, and you are still at \$459, but you don't get 3 bands, again, the K2 wins.

Personally I like the K2, I think it is the ultimate kit on the market today. There are a couple of things that I don't like. One is the industrial looking case. I wish that they had used counter sunk screws like Doug Hauff does in his DSW and Red Hot Radio cases. They give a much more finished look to the rig. Just my opinion, but everytime I see the rig those screw heads sticking out bother me. The second thing is the keyer. To use the keyer memory you have to push 2 buttons. Wish it was like the keyer from Idiom Press that you just push a button on. Other than that, I love the rig. I have not built one, but I did operate Jay Bromley's for several hours when I was in Arkansas this summer. I am going to treat myself to a kit soon. (JoAnne's phone number is 209-392-3522 in case you want to call and have her add it to my Christmas list, grin).

There it is, my choice for the All Band Super Kit, the K2. But let me add a word of warning here. Please build a kit or two before you build the K2, in fact, I would suggest that you build several before you tackle this one. It is the crown jewel of kits today, but it does deserve an experienced builder. But if you have built most of the kits in this series, there is no reason that you shouldn't build the K2 with ease and enjoy the process immensely.

The next installment will be the final one, when I suggest a project for all of those who have built the K2 and want the next challenge. It is out there, and you will be challenged. That comes tomorrow in What Kit to Build #8, the Next Step.

Hope you enjoy this series. Again, this is my opinion and attempt to pull together accurate information for the builder as to what I think is the best value for the dollar in kits today and provide an enjoyable learning experience at the same time. I believe that all 4 of the rigs I mentioned today are good kits, but I do have a favorite and I said what that was and why. 72, Doug, KI6DS

-----  
Date: Wed, 8 Sep 1999 20:09:34 -0700  
From: Doug Hendricks <ki6ds@dospalos.org>  
To: "'qrp-1@lehigh.edu'" <qrp-1@lehigh.edu>  
Subject: [49783] Repost "What Kit to Buy, #8"  
Message-ID: <01BEFA39.ABF20F40@dialup-27.dospalos.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

You have followed the series and you have built all of the kits, the VE3DNL Marker Generator from Jay Bromley and the Ft. Smith Qrp Group, the TiCK Keyer from Embedded Research, the SWL+ from Dave Benson at Small Wonder Labs, the ZM-2 Tuner from Scott Gregson at Emtech, either or both the 135 ft. dipole fed with ladderline or the Gusher 2L from Joe Everhart, The Red Hot Radio NorCal 20 or Red Hot 40 from Dave Fifield, and finally the K2 from Eric Swartz and Wayne Burdick at Elecraft. You are a master builder now right? Wrong, there is the next step in building, and I have a suggestion as to what you should build next.

Also, what is there left for the guys who have built the K2?? You have built the ultimate pcboard through hole parts kit, now it is time to expand your horizons. Learn a new skill, and build a transceiver that is an outstanding performer. The 2N2/40 designed by Jim Kortge has an unbelievable receiver in it, and the rig is a lot of fun to build. This is the next step for you K2'ers. Keep on melting solder.

The 2N2/40 that was featured in the winter issue of QRPP and designed by Jim Kortge, K8IQY. This rig is built using a piece of 5" x 7" circuit board with pads glued on as anchor points for the components. All of the plans are in the Winter issue of QRPP and the Spring issue of QRPP has a couple of pages of corrections. If you do not subscribe to QRPP, you can buy the single issue from Paul Harden at QuickSilver Printing, P.O. Box 757, Socorro, NM 87801. The cost is \$12 and he will even include the additional corrections that were in the spring issue. The price includes shipping.

This book will take you through building the 2N2/40 using the pads. Everything you need is there. Paul Harden did the illustrations, and they make building the rig a piece of cake. Several have successfully reproduced the rig, and all who build it say that they have learned a new building style that is really neat. The advantage of this type of building is that that you can modify the circuit just by adding pads and components. An experimenters dream. And, there is another plus to this project. The Arizona ScQRPions have a board kit that consists of a screen printed layout of the pads on a board. All you have to do is cut up the pads from the strips of circuit board provided and glue them to the board, tin them, and then start building. To get the board kit, contact Bob Hightower, KI7MN, at [ki7mn@extremezone.com](mailto:ki7mn@extremezone.com) for current pricing and ordering information. The board kit is a good deal and will save you a lot of time.

This concludes the What Kit to Build series and I hope that you have enjoyed it. If you were at Hamcom, this was my presentation there at the QRP Forum. Many of you have sent private email with questions and words of encouragement. I thank each and everyone of you for your interest and kind words, they are appreciated. George Heron has asked for, and I have granted first publication rights to this series. Several have asked to put it on their web pages, and I ask that you not do that until George has published

it in his new NJ QRP Club Journal, "The QRP Homebrewer" which will make its debut this fall.

And finally, this series is my opinion, not fact, nor the final word on the subject. I have built most of the kits in this series and have operated those that I have not built. I looked at features of the radios, how well they worked, and bang for the dollar. Every kit that I mentioned has champions, and I don't disagree with their right to their opinion, I just have mine. Grin. Have a good day, and as our friend in New Hampshire says, "Melt Solder". 72, Doug, KI6DS

-----  
Date: Wed, 8 Sep 1999 20:31:53 -0700  
From: Doug Hendricks <ki6ds@dospalos.org>  
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>  
Subject: [49784] Repost "What Kit to Build, Part 4"  
Message-ID: <01BEFA39.B59B8260@dialup-27.dospalos.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

This series is being written to encourage new QRPers to build their own gear. It is made up of recommendations from me that are my opinion. I get around a lot of QRPers, and I listen to what they have to say. Most of my recommendations are based on my personal experience, but I also take into account what others have told me. The goal here is to give a guideline so that someone who has never built anything before will be able to learn how to build QRP kits. I don't think you want to start your building career with a NC20 or a K2, those are not beginner's kits. But what you can do is start simple, and as you build you will gain confidence and experience, which will soon enable you to successfully build advanced kits. But you have to learn to walk before you can run.

My recommendations also take into account what I think is the best bang for the buck. The kits that offer the best value for your money. One thing constant about QRP kits is that they are constantly changing. Just a few years ago, DC receivers were the norm, and superhet receivers were few and far between in QRP kits. Now, we have transceivers that have dds vfo's, built in keyers, frequency counters built in (audio and visual), etc. etc. That is called progress. QRPers are very conscious of value. They expect and deserve quality. These recommendations are my opinion. Nothing more, nothing less.

I have been asked many times by beginners to suggest a kit or kits to build. Guys come up to me, introduce themselves, and say, "I want to build radios, but I don't know where to start. Can you suggest a kit?" This series is my answer to that question.

My first three recommendations have been the VE3DNL Marker Generator from Jay Bromley and the Ft. Smith QRP Group, the TiCK 4 Keyer from Embedded Research, and the SWL+ from Dave Benson at Small Wonder Labs. The next project that I recommend that you build is the ZM-2 Tuner from Emtech.

Why do you need to build a tuner? Well, it is one of the things that you need to match the antenna that we are going to build later to your QRP rig. By building your tuner, you will get an understanding of what goes into a tuner, and how it works. The Emtech ZM-2 is the tuner of choice by hundreds of QRPers. Why? Because it is easy to use, the cost is only \$50, it is so physically small that it is a natural to take along backpacking or camping, and best of all, it is a kit. Every time you build a kit, you get personal satisfaction. You built it, and if it breaks, you can fix it.

Emtech was started several years ago by the late Roy Gregson. It is now being run by his son, Scott. The company is located in Washington, and it gives first class service with all of its kits.

This tuner is amazing. It is a Z-Match configuration, and it will match anything. It even has a neat little SWR indicator that is so easy and simple to use that you won't believe it. The LED SWR indicator was designed by Dan Tayloe and it uses an LED to indicate when you reach the null. The LED goes out!! Simple huh?

Building the tuner. You will use point to point wiring here, and you will hang the components off the controls and switches. It gives you a new experience in building, but don't worry, the instructions are very good, and if you have trouble, again, there are literally hundreds of guys on the list who have built this thing. I think it is the tuner de jour for the Arizona Scorpions, in fact it may be required to have one to belong to that group, grin.

Let me caution you about one thing. The capacitors have to be isolated from ground, and you need to be careful that you drill the mounting holes accurately in the front panel. Emtech gives you a drilling template, and it isn't hard, but you do need to be careful. By the way, the tuner uses two polyvaricon variable caps, like those used in transistor radios, and you will look at them and say, "There is no way those will work." But you will soon find out that they do work, and work well. I was surprised myself at how well they do work. I have had my tuner for 2 years, and it is still going strong. When I go out in the field, I use this tuner exclusively, because of its light weight, small size and ability to handle any type of antenna feed line, coax or balanced line. I also use it a lot in the shack. It just is easier to use. Plus it doesn't take up very much space.

Here is the information that you need to order a ZM-2 Tuner from Emtech. First of all the url of their web page: <http://emtech.steadynet.com/>

\*\* VISUAL SWR INDICATOR  
\*\* TUNES WIRE ANTENNAS SUCH AS --RANDOM, LONG, SHORT, that's all the wire I had!  
\*\* TUNES BALANCE FED ANTENNAS SUCH AS, LOOPS, DELTAS, DIPOLES, VERTICALS, V's.  
\*\* TUNES (from field reports) GUTTERS, WINDOW FRAMES, SWING SETS, AND -- BED SPRINGS?  
\*\* TUNES OUT COAX FED ANTENNA MISMATCHES TO MAKE THE RADIO HAPPY!  
\*\* DOES ALL THE ABOVE AT 80 THRU 10 METERS, AND USUALLY MUCH FASTER THAN OTHER ATU's!  
\*\* DID I SAY 15 WATTS MAX!  
\*\* THE ZM-2 IS A NATURAL TO GO TO THE FIELD, AND AT HOME IN THE SHACK!

An evening project for many, maybe two evenings for others. Very easy construction, via pictorial drawings.  
All parts furnished, including a stick-on panel layout. Big knobs for vernier tuning because the ZM-2 tunes so sharp.  
One large toroid to wind using a unique method that is fast and extremely easy. One small toriod to wind. Wire is furnished.  
Kit is complete, no other parts to try to find. Size is 5-1/16" x 2-5/8" x 1-5/8".  
Price is \$50.00 shipping included.

-----  
----  
To ORDER

Send a check or money order for \$50 in US funds to:

EMTECH  
1127 POINDEXTER AVE W  
BREMERTON, WA 98312

Price includes shipping. Washington residents please add 8.2% sales tax.

The above information is from the Emtech web page. Hope it helps.  
Tomorrow, #5 in the "Which Kit to Build Series", and with apologies to L.B. Cebik, I am going to recommend the best beginner antenna that I know of.  
(You will put together your own kit on this one.)

72, Doug, KI6DS

-----  
Date: Wed, 8 Sep 1999 20:29:20 -0700  
From: Doug Hendricks <ki6ds@dospalos.org>

To: "'qrp-1@lehigh.edu'" <qrp-1@lehigh.edu>  
Subject: [49785] Repost "What Kit to Build, Part 3"  
Message-ID: <01BEFA39.B39C5700@dialup-27.dospalos.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

I have recommended that the first two kits to be built by a beginner be the VE3DNL marker generator and the Embedded Research TiCK 4 keyer kit. Now that you have built these and got them working, it is time to take the next step up in complexity. It is a huge step, but you are more than ready for it.

My recommendation for the next kit is the Small Wonder Labs SW+ 40 designed by Dave Benson, NN1G. This kit is available as a parts and board kit from Small Wonder Labs for \$55. It is a 40 Meter CW Transceiver that puts out about 2-3 Watts, and has a real VFO plus a superhet receiver. There are similar kits on the market in about the same price range, but none of them comes close to the SW40+ in value or bang for the buck. Why? Because of the Elmer 101 edition of QRPp, which was the fall issue produced by NorCal QRP Club and I am the editor, which I will say up front. This issue was the result of a 3 month series of articles that appeared here on qrp-1 where several experts took the SW40+ kit and explained how to build it in step by step format, and more importantly why it was designed the way it was. What you are getting is a radio design course. Not only do you get to build a radio, but you will learn how and why it works. It is an excellent book and there is nothing else out there that comes close for the price. The Elmer 101 issue of QRPp is available for \$12 (which includes shipping and handling) from Paul Harden at Quicksilver Press, P.O. Box 757, Socorro, NM 87801. Or, you can order it as part of the 98 QRPp back issues from me for \$24 (which includes shipping). The 98 QRPp back issues contain all 4 of the 98 issues of QRPp, including the 2N2/40 issue.

Why do I recommend the SW+? Well there are 2 basic entries in this price class, the SST and the SW+. The SST sells for \$85 and includes connectors and case. The SW+ is \$55, a \$30 savings. But you say, it doesn't include the connectors and case. Well, tell you what, you can buy the connectors and controls for \$5 easily at any hamfest, you'll probably have them in your junk box or a friend will. And, the Elmer 101 book has a great article on building a case from plastic sheet by Bill Jones. It looks and works fantastic, and is very, very easy to do. But if you want, you can put it in a stock Radio Shack case, or one of those computer switch boxes, lots of possibilities here. The Bill Jones case will only cost about \$1 to build. So you should be able to build the SW+ in a case for \$60 or so, which is a \$25 savings over the SST.

But there are a couple of other reasons that I like the SW+ over the SST. First there is the tuning. The SST uses a varactor tuning scheme, and you



only get about 10 -12 khz and it is restricted to where ever it falls on the band (they have picked out crystals to give you the QRP hot spots). But the SW+ uses a true VFO, and it can be set to any 40 - 50 kHz segment of the 40 meter band that you want. Think about this. If you build it for the Novice band, and you upgrade, all that you have to do is unsolder the toroid and take off a turn (or is it add?? I can never remember) to put it on the general portion of the band, but it is adjustable as to where it is on the band, where the SST is not. Then later on your interest turns to working DX down on the bottom of the band, you can move the VFO coverage down there just as easily. But you can't do that with the SST!!

The second point is the availability of the Elmer 101 book to go along with the building of the radio. It is not available for the SST. Remember, we want to learn the how and why of the design as well as build the radios.

How do the two designs compare? Well, about the same as far as receiver sensitivity goes and selectivity as far as I can tell. They both use NE602 front ends and are very similar radios. The difference though is in the price, the VFO vs. the Varactor Tuned VXO, and the availability of the Elmer 101 series.

When you build this kit, there are literally hundreds of people on the list who have built this kit before you, and help is just a posting away. Plus, Dave Benson is one of the best at customer service, if not the best. Alignment is very easy, and you will get to use your VE3DNL to peak the receiver, mark the dial for tuning, and let you know where you are on the band. No special test equipment is needed. The manual is fantastic, the parts and board are top of the line, and it is about a 5 to 10 hour project. And when you finish, you have a QRP transceiver that is capable of providing all the contacts that you want to make. Oh, and the TiCK keyer that you built in Project 2, it works great with the SWL40+ transceiver.

Don't be afraid to take this next step. You built the VE3DNL and got it working. You built the TiCK keyer and it works too!! You have the skills and ability to build a real, honest to goodness CW Transceiver with Superhet Receiver, and it won't break the bank to do it. In fact, you probably have spent about \$100 to get where you are after you finish the first 3 projects, and you have learned a ton, and it has been fun.

Tomorrow, Kit #4 and we take a step sideways in complexity, but you build a very, very useful station accessory which is almost a necessity for easy portable operation.

72, Doug, KI6DS

-----

Date: Wed, 08 Sep 1999 23:51:55 -0400

From: Pete Burbank <plburbank@kih.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [49786] Re: Verboten subject???  
Message-ID: <3.0.32.19990908235152.006f1f7c@kih.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Perhaps they have now returned in full force to the QRP fold.

>  
>Disclaimer: TenTec's marketing guy (Scott, W4PA) is the leader of the  
>Tennessee Contest Group, of which I am an active member. Guess that might  
>make me biased toward TenTec in some camps ... :)  
>  
>  
>--  
>Marty, N5NW

IMHO, Ten-Tec is a class act. Tech support is incredible.  
This is not to say anything bad about other outstanding folks  
in the QRP community.  
73/88 io all  
Pete NV4V

-----  
Date: Wed, 8 Sep 1999 19:58:42 -0800  
From: Bruce Hopkins - KL7H <kl7h@arrl.net>  
To: qrp-1@lehigh.edu  
Subject: [49787] KL7H - QRP Gear - Garage Sale - Update  
Message-ID: <v03007804b3fcd722f9a@[208.161.167.78]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hi Gang...

Thanks for all the response on my garage sale... The only items  
remaining yet for sale are the WM-75, LDG Autotuner, and the COBRA -85...

If you missed my post yesterday, drop me a line off the list and I  
will resend it to you... Or, you can view all items plus the post at this  
URL:

<http://home.gci.net/~bhopkins/fs>

Take care and have fun...

72 / 73 / oo's - Bruce - KL7H  
Fairbanks, Alaska

"Alaska QRP Club" - Web Site: <http://home.gci.net/~bhopkins/akqrp>  
or: <http://www.qsl.net/kl7aqc>  
- 10 Meter Beacon: 28.282.28+/- KL7AQC / BCN

-----  
Date: Thu, 09 Sep 1999 00:00:22 -0400  
From: radioham@erols.com  
To: ki6ds@dpol.k12.ca.us, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [49788] Re: DXCC QRP Endorsement, my view, KI6DS  
Message-ID: <3.0.6.32.19990909000022.007c3730@pop.erols.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Doug and all-

QRP ARCI already sponsors QRP DXCC, along with QRP WAS and QRP WAC. Full info on these awards, as well as the venerable 1000 mile per watt award is available at <http://www.qrparci.org>. To date, we have issued 141 QRP DXCC awards, 428 QRP WAS awards and 1676 1000 mile per watt awards (sorry, I don't have an accurate count for WAC). There are endorsements available for single band, various modes, 2 way QRP and even for all milliwatt contacts - now that is a real challenge. In fact, we offer the first increment for WAS at 20 states and then at 30, 40, and 50, to recognize how hard it is to do this QRP. As an added inducement, we will doing the same thing with DXCC - letting you earn your way up so you have something in your hand while you are shooting for the big one. This is still under consideration, but it looks like we will have the basic award at 25 countries and then additional awards at 50, 75, 100 and on up.

So you don't have to wait for someone else to offer these awards - they are available right now from QRP ARCI - and you don't have to be a member to receive one. And as an added attraction, recognizing that it sometimes takes forever to get those rare QSL cards in the mail, we accept electronic QSLs - either an actual e-QSL or a forwarded copy of an e-mail from the other station confirming the contact. We also have the General Certificate Rule for WAS, DXCC and WAC, which means you don't have to send us QSL cards or copies - two hams can sign a statement that have have seen your verifications of contact.

The ARRL awards are definitely worth working towards, but if you want a QRP award now, we have them.

Let me know if you have any questions about our awards program.

72/73,

Steve, N4EUK  
QRP ARCI Awards Manager  
<http://www.qrparci.org>

-----  
Date: Wed, 08 Sep 1999 23:08:30 -0500  
From: "Joel Kluender, NF9K" <nf9k@eudoramail.com>  
To: qrp-1@lehigh.edu  
Subject: [49789] Kudos to OHR/Dick Witzke/Marshall Emm  
Message-ID: <KCHIGBOHMIBDAAAA@shared1-mail.whowhere.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

All,

I would like to publicly acknowledge OHR for the great customer service I received lately!

I have owned a partially-built OHR-400 for nearly 2 years now and FINALLY got it finished only to have a number of problems. Marshall referred me to Dick, and Dick was incredibly patient over the phone giving me the advice I needed to troubleshoot several separate problems I was encountering.

They even threw in some replacement components for the VFO which fixed the drift problem I was having. postage paid, no charge.

This company is a real class act, in my opinion!

73,  
Joel NF9K

---

Joel Kluender, NF9K  
870 Prairie Street S.  
Shakopee, MN 55379

Great is the Lord, and worthy of praise!

Join 18 million Eudora users by signing up for a free Eudora Web-Mail account at  
<http://www.eudoramail.com>

-----  
Date: Wed, 8 Sep 1999 23:16:51 -0500 (CDT)  
From: kc0bdw@webtv.net (Hal Schlotfeld)  
To: qrp-1@Lehigh.EDU  
Subject: [49790] Apologie  
Message-ID: <18572-37D734B3-3275@postoffice-213.iap.bryant.webtv.net>  
Content-Disposition: Inline  
Content-Type: Text/Plain; Charset=US-ASCII  
Content-Transfer-Encoding: 7Bit  
MIME-Version: 1.0 (WebTV)

I'm sorry I was wrong about the RS 10M radio.  
Hal

-----  
Date: Wed, 8 Sep 1999 19:58:36 -0700  
From: "Floyd Smithberg" <flydnq7x@primenet.com>  
To: "QRP-L message" <qrp-1@Lehigh.edu>  
Subject: [49791] Float Charger-Phoenix QTH  
Message-ID: <199909090430.VAA12932@smtp03.primenet.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

FYI Chuck, et al.....Harbor Freight Tools address in Phoenix is 6001 N.35th Ave.

BTW, the Float Charger is \$7.00 here. (I picked one up today)

Floyd NQ7X Phoenix ScQRPion DM33uq

-----  
Date: Wed, 8 Sep 1999 22:32:14 -0600  
From: Jeff Francis <jfrancis@frii.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [49792] DSW-40  
Message-ID: <19990908223214.A29552@geek.noducks.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Finally got enough time to finish my new DSW-40 kit. Just as everyone else seems to be, I was very impressed with the quality of the kit and the quality of the instructions. The only real snag I hit was that all nine 0.1uf caps were missing from the parts bag. Oops!

No worries, a quick trip over to Tech America (or whatever they're calling themselves now) fixed that one. While I have no doubt in my mind that Dave would have made it right and sent the caps right out, I'm an impatient sort sometimes, and it was \$2 well-spent to get the thing done. Dave, you can make it up to me by moving my name to the top of the list of people waiting for cases. ;^) Heh heh heh, just kidding...

One problem has appeared now that things are done though. If I hold a finger on top of the final output transistor (right on metal can), the thing hears like a champ. If I remove my finger (or move it to any other part of the circuit), the radio goes as deaf as my three-year-old when I tell him not to jump in the mud puddle. Any suggestions, anyone? I'm a digital kind of guy, not analog, and this analog stuff befuddles and confuses me when it doesn't do what I think it ought to...

```
--
+-----+-----+-----+
| Jeff Francis - KC0BWS | | Ack! | | |
| Level Three Communications | | ____/| |
| Denver, CO USA DM79nr | | \ o.0| |
| | | You cannot strengthen the | | =(_)= |
| | | weak by weakening the | | U |
| 39d43m16.4s N 104d52m10.7s W | | strong. |
| jfrancis@frii.com jeff@l3.net | | --Unknown |
| http://www.frii.com/~jfrancis | | PRR... |
+-----+-----+-----+
```

```
-----

Date: Thu, 9 Sep 1999 13:40:59 +0900
From: "Toru Kato" <jg1rvn@inv.co.jp>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [49793] WM-20 VFO mods (for warm-up drift)
Message-ID: <000901befa7d$8be13200$86649dd2@jg1rvn>
MIME-Version: 1.0
Content-Type: text/plain;
    charset="iso-2022-jp"
Content-Transfer-Encoding: 7bit
```

Hai, all !  
This is JG1RVN Toru.

My WM-20 (14MHz SSB) transceiver had a warm-up drift about 2kHz down per 30 min. This time, I found simple mods for eliminating its warm-up drift.

Do you have a "1N4148" or the same type small signal diode in your

parts box ? If 'YES', let's begin.

Insert a 1N4148 (or the other same type small signal diode) in series with 100-ohms to ground (the diode's cathode line goes to ground). You can install it vertically. That's is a simple !

Q12(2N2222) emitter - 2,2K -100 - "1N4148"CATHODE - GND.

You may remember NorCal20 AGC drift mods,  
it is almost same way. (Thanks that idea !)

After this mods, WM-20 VFO is fine, almost no serious warm-up drift.

How are your WM's ?

Thanks.

-----  
JG1RVN Toru Kato  
jg1rvn@inv.co.jp  
-----

-----  
Date: Thu, 9 Sep 1999 01:01:33 -0400  
From: "Barrett M. Thompson" <barrettthompson@mindspring.com>  
To: <qrp-1@Lehigh.EDU>  
Subject: [49794] DSW-30: first nite out  
Message-ID: <000001befa80\$62e84660\$7a3c56d1@silver.aeronmics.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Greetings.

I've seen some very encouraging posts recently by hams who are really jazzed with their new kits, or milliwatt QSO's, or QRP-SSTV (all great stuff!). I'd like to share my story in the same spirit. I finished up a DSW-30 tonight, dropping it into the enclosure from Small Wonder Labs. The receiver is really quiet and I could hear many stations that I miss when tuning around with my QRO rig. The QSK is wonderful, too. Connected to an extended double-zepp up 35 feet & running 2.5 watts, I was able to work a nice handful of stations in an hour. I didn't tell them I was QRP until after they gave me my signal report :-). Stations worked were:

TK/DL7HZ, Tar in Corsica, w/559 rppt  
F5PVI, Jean near Toulouse, w/579 rppt  
OK2BVG, Bob (gave me nice comments on my sigs), w/579 rppt

OK1VU, Vasek in Praha, w/559 rppt  
ES1WN, August in Estonia, w/449 rppt

I really love the thrill of making a contact on a radio that I built myself-- and it's my first! If you're a first-time builder wondering about the DSW kit, don't hesitate any longer. It goes together very well and is a real pleasure to operate. Your general soldering skills together with the excellent instructions and support will get you through.

Enjoy the bands & 73,

Barrett / KE4R  
Fayetteville, GA

-----  
Date: 9 Sep 99 01:03:55 EDT  
From: Roy Lincoln <wa4dou@usa.net>  
To: al dawkins <alk0frp@earthlink.net>, <wa4dou@usa.net>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [49795] Re: [Re: Grounding for lightning]  
Message-ID: <19990909050355.11361.qmail@nwcst021.netaddress.usa.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: quoted-printable

Hi Al,

Well, i wouldn't suggest to you ,for a moment that a good ground is a cure all for every situation. However, if we take a hypothetical example and say that lightning strikes your tower(i would prefer to say, if your tower/antenna is involved in an incident) and your system grounding is such that you have a ground resistance of 65 ohms, using a figure of 20,000 amps , your antenna /tower is going to rise in potential toward a figure exceeding 1,000,000 volts.  $1,000,000 \times 20,000 \text{ amps} = 20,000,000$  watts of power for a fraction of a second that must be dissipated somewhere. Amateur shorting switches and such are of no value when dealing with this magnitude of energy. I know a ham = who had his tower hit a few years ago and in addition to the total destruction of his station, his house had something like \$11,000 or \$13,000 worth of damage.



age  
from fire.

Using the above example, if your ground system is, say, 5 ohms, then 20,000 amps flowing (regardless of direction), will only cause the tower to rise in potential towards 100,000 volts, effectively being clamped to a much lower level by the low earth resistance. This is in a range that can allow surge protectors, grounding switches, gas discharge tubes, etc., to do their job and survive. =

I don't allow my station to be connected to the a.c. mains or the antenna or ground system, when not in use. I don't think its wise to do so. =

I've seen commercial antennas like Stationmasters and Super Stationmasters with some and even all conductive parts "vaporized" and the fiberglass radome shredded and the strands hanging towards the ground. Lightning is very serious business and if one doesn't have the ground system to handle a strike, there can be very serious consequences.

With all due respect Al, i think you are mistaken about your ground resistance. Commercial entities with huge budgets find it utterly impossible to achieve grounds on the order that you have suggested that yours is. And, the very fact that your station sustained damage from a proximity hit also suggests that your ground resistance is much higher.

Finding an effective means of measuring ground resistance, available to hams without great expense, would go a long way towards helping us to achieve safer installations. I will soon have two towers in the yard, after 38 years of being a ham. It occurred to me that i couldn't leave the ground system to chance, too much risk!

It used to be said, that to achieve an effective ground system under a tower, one needed to go broke planting ground rods, and then some. A lot =

of  
truth in that. =

Good luck, 73, Roy WA4DOU

-----=  
-  
=  
=  
"al  
dawkins" <alk0frp@earthlink.net> wrote:  
I have a very good ground system. Tower ground rod 8 ft tied to rods at t=  
he  
base of the tower. Plus a10 copper pipe outside the shack window. Plus ti=  
ed  
to electrical and the copper water system.  
I have a measured less than (1/4) .25 ohms in good clay soil. Well not =  
so  
good in other aspects as its bentinyte which expands and shift houses and=  
is  
a rear pain to dig. its close to concrete when you have to dig in it.  
I still got a hit this summer but not a direct hit, it was a proximity hi=  
t  
that took out my band switching diodes in the front end of the receiver. =  
Its  
wild when you hear 500 khz to 30 mhz all at once on the front end. I was  
home that weekend and normally ground all antennas and switch the rig to =  
a  
grounded position when I leave to go on the rode. BUT I was home and in =  
the  
back yard when the strike hit. I could feel it in my face as it struck. =  
So  
a good ground may not be the cure-all for every situation.  
Al K0FRP

----- Original Message -----

From: Roy Lincoln <wa4dou@usa.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Sent: Wednesday, September 08, 1999 8:20 AM  
Subject: Grounding for lightning

Hi Gang,

I have a tidbit that i would like to share with the list. I don't think=  
this  
is a subject that interests many hams ,based on a recent post that i made=

,  
and  
the relatively few responses i got. However this ought to rate high with every ham who has outdoor antennas, especially tower/antenna combos.

Today my local electric utility came and installed "whole house" surge protection under the service entrance meter. (Luckily i was home taking a

few  
days off and could visit with them). Their pitch was that i needed to have a ground under 25 ohms in order for it to be relatively effective=

=2E  
They measured my ground resistance with just the 8 ft. rod that grounds the service under the meter. Then i connected my ground system in the backyard

and  
the resistance was between 2.5 and 3 ohms.

Polyphaser says that in order for a ground system to be effective against

lightning, the resistance should be between 5 and 10 ohms and "ideally" <= 5.

Some things that have a bearing on this are that tropical storm Dennis dumped

7 " of rain here over the labor day weekend. The soil is saturated in the

upper crust of the ground, no doubt enhancing the ground. Over much of the

summer, there was very little moisture in this upper crust. So my ground system resistance, naturally, will vary along with this moisture. I have=

no  
idea what range to expect that it could vary over but it seems reasonable=

that

it might be a range of 100-200%, thus 2.5-10 ohms perhaps.

My ground is composed of 650 ft. of #2 solid copper wire, exothermically

welded to 47 ground rods, some going to a depth of 20 ft., 15 ft. and most

going to 8-10 ft.

Reducing the number of rods by a factor of 2 should roughly increase the

resistance about double.

Since soil conductivity varies so widely around the country, it is impossible to say how these results would vary geographically. None the less,

i thought i would share with you my experience in the sandy, loamy central

1

coastal plains of eastern N.Carolina.  
73 to all-Roy Lincoln WA4DOU Elm City, N.C.

---

Get free email and a permanent address at <http://www.netaddress.com/?N=3D=1>

---

Get free email and a permanent address at <http://www.netaddress.com/?N=3D=1>

-----  
Date: Thu, 09 Sep 1999 01:09:03 -0400  
From: Pete Burbank <plburbank@kih.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [49796] Rotten CW  
Message-ID: <3.0.32.19990907175503.0068ad40@kih.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Well H.P. Maxim is surely in a different dimension by now but might  
be monitoring the CW sending going on.  
BK is break not back to you....  
Spacing...A Smile is as good as a wink..."Rolling Stones"...  
Decent CW depends on SPACING....  
CW smeared together is tough to read and sounds like junk!!!  
Again BK is break...not back to you  
'nuf said...Pete NV4V vvvvv

-----  
Date: Wed, 8 Sep 1999 22:48:43 -0700 (PDT)  
From: Daniel Bsrlett <ausham@yahoo.com>  
To: qrp-1@Lehigh.EDU  
Subject: [49797] An answer, a thankyou, an apology and a backlash...  
Message-ID: <19990909054843.28369.rocketmail@web601.yahoomail.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

G'day all, hope you are having a good day. I was, at least until I  
checked my email...

I would firstly like to thank all of those people who replied to my  
survey "Should we keep morse testing, etc." and / or provided

encouraging / thoughtful feedback. I enjoyed reading your thoughts on both sides of the issue.

As of this instant, there have been 49 votes, with 14 to get rid of morse testing and 35 to keep it.

I would now like to get on to the bad news. Please bear with me, as you may even be at fault yourself...

I am extremely sorry for posting the morse code message, and here is why...

Within a day of posting the message, stating the survey, I received many email messages which blatantly abused and insulted me.

I would firstly like you to know, that as I have been on this list for less than 3 months, I had no knowledge of the past "Morse Debates" on the QRP-L reflector.

I believe that the emails whinging about this were totally unnecessary - especially in the tone that most of them were written in!

As well as this, I was threatened to be terminated from the QRP-L list, have my head punched in, told I was not worthy of being a ham, as well as others...

Why? Because I expressed my opinion, exercising the right to freedom of speech, one of the underlying factors of a democratic society, that's why.

Everyone has the right to express their own opinion, no matter how contraversial it may be, and people have the right to either agree or disagree. However, taking it to the length of threats is going a little too far, don't you think?

Another thing which made me extremely angry was the fact that people even abused those who participated in my survey (with one man even being threatened to have his testicles removed!). I would like to mention here that full responsibility for this survey lies with me, not the participants. I sincerely apologise too all the participants who were abused as a result of the survey, and I hope that you were not too insulted by the contents of these emails.

One thing that almost made me laugh was the fact that a few of these emails had attachments, which praised the Lord. The reason I found it so funny was the fact that people of a religious nature are supposed to follow their religion and 'do unto others what you want done unto you'. I find some of you hypocritical.

Once again, I am sorry for my own actions. Some of you may see me as the 'pot calling the kettle black', but then, so be it.

Regards

Daniel Bartlett, VK4HDB

(If you wish to reply to this message, please reply to ausham@rocknet.net.au, and not my yahoo! address.)

-----  
Do You Yahoo!?

Bid and sell for free at <http://auctions.yahoo.com>

-----  
Date: Wed, 8 Sep 1999 23:39:14 -0700 (PDT)  
From: Paul Erickson <paule@sfu.ca>  
To: qrp-l@lehigh.edu (qrp), qrp-canada@lists.gpfn.sk.ca (qrp-canada)  
Subject: [49798] FS: SW40  
Message-ID: <199909090639.XAA05425@fraser.sfu.ca>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

For sale: SW40 with rit, 10turn pot, in Hammond box. Works great.  
Asking \$75 shipped.

cheers, Paul VE7CQK/email: paule@sfu.ca

-----  
Date: Wed, 08 Sep 1999 23:53:17 -0700  
From: Jerry Parker <jparker@fix.net>  
To: qrp-l@LeHigh.edu  
Subject: [49799] 2N2/40 Parts Kit  
Message-ID: <3.0.6.32.19990908235317.01020890@fix.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Dan has added some more goodies to his page

including a 2N2/40 parts kit!

Check it out: <http://www.fix.net/dans.html>

Enjoy,,,72,,,Jerry...WA6OWR...K

-----  
Date: Thu, 9 Sep 1999 09:49:41 +0100  
From: "Frank G3YCC" <frank@g3ycc.karoo.co.uk>  
To: "QRP-L" <qrp-l@lehigh.edu>, "GQRP-L" <gqrp@onelist.com>  
Subject: [49800] Recharging alkalines  
Message-ID: <001401befaa0\$49958680\$a6a732d4@prsat0xl>  
MIME-Version: 1.0  
Content-Type: text/plain;

charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Thanks to all who answered my request for ideas on charging eight  
rechargeable alkalines in series.  
It seems that:

>'The battery chemistry and the chargers are designed for individual battery  
charging only, so the chip can set the charge rate for each cell.' (quote  
from KW1ND - thanks), who also says

>'One thing I noticed about the cells, at least the AA's I tried, is that  
they absolutely cannot tolerate high current draws, i.e. in transmitting. I  
tried them in my HT and they were very quickly dead, and never did allow the  
transmitter to use full power. Maybe the larger (C or D) cells are better  
at this, but I've read statements to the same effect: Ni-Cads beat them  
hands down for short-term, high current draw applications.

Other people who answered say the same. Pity as alkalines seem so useful. No  
'memory' effect etc.

I guess Nicads are preferable after all, what do you think?

Thanks

Frank G3YCC  
QRP web page <http://www.karoo.co.uk/g3ycc/>

-----  
Date: Thu, 09 Sep 1999 11:38:01 +0200  
From: "Robert M. Ganter" <hb9dnn@gmx.net>  
To: qrp-1@Lehigh.EDU  
Subject: [49801] Re: Help for a friend  
Message-ID: <jX=XN0D4XVdI2l6H071ny1EV1baQ@4ax.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: quoted-printable

On Wed, 08 Sep 1999 19:17:03, you wrote:

> Sound isn't going to help. He needs software to decode morse code and =  
display  
> the text as he sends from a key connected to the serial port. He will =  
also

> need an adapter that drives DCD, or another control line between -12 =  
and  
> +12 when he operates the key.  
>=20  
> This could also be done on the parallel port, but I think it's a lot =  
easier  
> to write good interrupt routines for a serial port.

How about the morse decoder in the August issue of QST? Seems to be a  
pretty simple system to build.

73/72

Robert  
--=20

Robert M. Ganter HB9DNN

-----  
Date: Thu, 9 Sep 1999 20:33:01 +1000  
From: Daniel Bartlett <ausham@rocknet.net.au>  
To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>  
Subject: [49802] QRP Email  
Message-ID: <01BEFB02.84E8ACA0@rocknet>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: quoted-printable

G'day All - hope I am not getting on anyone's nerves by writing this...

The QRP web-based email site, which I host, has now had a total =  
face-lift. (I'm sure you'll like the new motto!!)  
Anyway, if you are already using a free email account (eg Juno) and want =  
a better one, or simply want email that reflects your love of QRP =  
(that's all of you I hope!), just visit <http://www.qrp.zzn.com>.  
Email addresses look like this: [callsign@qrp.zzn.com](mailto:callsign@qrp.zzn.com)  
Great eh?

Dan

73 es 72 de Daniel Bartlett, VK4HDB=20  
<http://www.qsl.net/vk4hdb/index.htm>  
[ausham@rocknet.net.au](mailto:ausham@rocknet.net.au)  
1 Goodson Rd, Bouldercombe, Queensland 4702, AUSTRALIA  
+61 07 4934 0389=20  
QRP-L #2002



-----  
Date: Thu, 9 Sep 1999 05:56:51 -0500  
From: Jeff Davis <jeff@n9avg.org>  
To: QRP-L List <qrp-l@lehigh.edu>  
Subject: [49803] Re: QRP vote  
Message-ID: <19990909055651.B4186@n9avg.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Quoting SFIKE@twa.com (SFIKE@twa.com) [990908 22:27]:  
> enough people interested. The results of the vote may subside some of the  
> current debating that seems to be clogging the bandwidth. Besides, wouldn't  
> we all like to know wich rig is tops?!

the results might be interesting but I doubt it would settle the issue.

96% of the population think the best rig you could buy is the one they  
bought ... even if it is a dog! that phenomena isn't just a QRP thing but  
human nature to want to affirm that what we spend our hard earned money on  
was a wise, intelligent choice!

few is the amateur who will buy a piece of equipment, realize it's a  
dog, and then not find something wonderful to say about it in a crowded  
room ("yeah, its got a noisy receiver but the gear ratio on the main  
tuning dial is the best I've ever seen!"). hi hi

72,  
--  
jeff davis, n9avg

-----  
Date: Wed, 8 Sep 1999 21:42:16 -0400  
From: "Alex" <aturner@netunlimited.net>  
To: <k7qo@hotmail.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [49804] Re: Morse Code - Should we have it?  
Message-ID: <000201befab3\$deb2c3a0\$7803a5d0@pentiumii>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Tnx, Chuck.

N4BYJ

----- Original Message -----

From: Chuck Adams, K7QO <k7qo@hotmail.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Sent: Wednesday, September 08, 1999 09:24 AM  
Subject: RE: Morse Code - Should we have it?

>  
>  
> Dan et.al.,  
>  
> This topic has been beat to death and is to be taken  
> elsewhere. No code flamewars on this mail reflector.  
>

-----  
Date: Thu, 09 Sep 1999 07:31:00 -0700  
From: Dana E Hager <dehager@ix.netcom.com>  
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>  
Cc: bensondj@aol.com  
Subject: [49805] Elmer 101 - SW-40 mods/ info  
Message-ID: <37D7C4A4.D8A2E76C@ix.netcom.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I know I am about a year behind on this... Is there a site where info and mods have been posted on the SW-40 project? I have a copy of the Elmer 101 QRPp but address in the manual is no good.

Thanks,

Dana E Hager  
Nazareth, PA

-----  
Date: Thu, 09 Sep 1999 07:46:36 -0400  
From: Scott Howell <whowell@hq.nasa.gov>  
To: qrp-1@lehigh.edu  
Subject: [49806] cw handkey on line  
Message-ID: <3.0.5.32.19990909074636.007ff480@mail.hq.nasa.gov>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Thanks to the generosity of Mike/n9bor and Jim N5IB, You can find the handkey picture at the following web sites.

<http://www.qsl.net/n9bor/n3byy.htm> or <http://www.qsl.net/n5ib>

if you'd rather have it E-mailed directly to you, send an msg to me and I'll due that.

tnx again fellas for your kind offer of hosting this pic.

73 de Scott/n3byy

ps, if interested in getting one of these let me know. I'd like some comments from you guys/gals so I can let them know if its a go. If so, I'll be working the price up and hope to get that next week.

tnx

-----  
Date: Thu, 9 Sep 1999 07:20:59 -0500  
From: "Randy Jouett" <rules@bellsouth.net>  
To: <kory@avatar.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [49807] Re: I have a ZM-1 kit to give away.  
Message-ID: <00e801befabd\$df450d00\$6b66d6d1@spock>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: Kory Hamzeh <kory@avatar.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Date: Tuesday, September 07, 1999 1:21 PM  
Subject: RE: I have a ZM-1 kit to give away.

Hi Kory/Gang,

>This is going to be a lot harder than I thought. There have been dozens of  
>people you have written me for the ZM-1 (plus the ZM-2 parts that Scott is  
>going to contribute!). Deciding who will get it is tearing me apart!

I have a suggestion. Maybe we could create a web page that allowed all of the contestants in future give-aways to enter their names and

e-mail address. Basically, once all entries were in, a program would select a winner at random and post the winner's name and e-mail address to the list. This would remove the all to frequent, "I have multiple people asking for the thing, and I don't know what to do!", and it would be pretty fair. Whatcha' think?

72/73,

----

Randy Jouett, AB5NI

-----  
Date: Thu, 09 Sep 1999 08:32:57 +500  
From: Terry Bendell <terryb@bmts.com>  
To: <ausham@yahoo.com>  
Cc: <qrp-1@Lehigh.EDU>  
Subject: [49808] Re: An answer, a thankyou, an apology and a backlash...  
Message-ID: <199909091227.IAA11979@Alice.BMTS.Com>  
MIME-Version: 1.0

I wouldnt worry about it,  
I and many other have gone head to head with people on this list. received the same e-mail as you. I love CW, always have, always will. Without CW Qrp DXCC is almost impossible !

Hang tight, some people tend to over-react on this list but basically they are good hearted and tend to be very passionate. Live and Let Live.

73

Terry

Net-Tamer V 1.11.2 - Test Drive

-----  
Date: Thu, 9 Sep 1999 20:36:27 +0800  
From: "Sly (9M8SL)" <cqsly@tm.net.my>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [49809] My Perennial Question: Why 2 Fuses?  
Message-ID: <19990909123627.NBMZ24779@User>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hello All,

I have a perennial question that is bordering me for years.  
Not exactly QRP, but vy close...

Why is the power cord for most rigs fitted with 2 fuses,  
one on the positive(red) wire and the other on the negative(black) wire?  
Is there any particular reason(s) for this?

Then, there are some which are fitted with only one fuse on the postive(red)  
wire?  
Why the vast differences?

Finally, which would give a better protection(s) to our QRP rigs?

Will be glad to receive inputs on the perennial question, and do tell all...

Vy 72/73 de Sylvester Liew, 9M8SL  
fm Sarawak: 'The Hidden Paradise of Borneo'.

-----  
Date: Thu, 9 Sep 1999 08:36:40 EDT  
From: Macstein@aol.com  
To: ki6ds@dospalos.org  
Cc: qrp-l@lehigh.edu  
Subject: [49810] Re: Repost "What Kit to Buy, #8"  
Message-ID: <21575099.250903d8@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Doug,

Thanks for the reposts! However, I'm still missing 1 and 2. Couldn't find them in the archives either. Did you use a different Subject?

Other topics:

Is this still Jim's address: [wager@juno.com](mailto:wager@juno.com) ? I'd like to check on my NorCal membership status (unfortunately, no QRPps -- and I want to make sure I'm current with the dues.)

BTW I inadvertently left you out of my "kudos" post. I joined NorCal the week I got my first license. I find your activity in QRP inspiring, and I've tried to purchase each and every NorCal kit offering, the latest being the amazing NC20 DX machine. Now I can go back and re-tweak my rigs to the lower portion of the band, and NorCal has been my major tool throughout the journey. Thanks.

-MAC-  
KF4KSM/ae  
Odessa, FL

-----  
Date: Thu, 09 Sep 1999 08:40:41 -0400  
From: Michael Maiorana <mikemo@ibm.net>  
To: dehager@ix.netcom.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [49811] Re: Elmer 101 - SW-40 mods/ info  
Message-ID: <37D7AAC9.EF9B28C6@ibm.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Dana,  
Try <http://www.qsl.net/kf4trd>  
72 de KU4QO, Mike Maiorana

Dana E Hager wrote:

>  
> I know I am about a year behind on this... Is there a site where info  
> and mods have been posted on the SW-40 project? I have a copy of the  
> Elmer 101 QRPp but address in the manual is no good.

-----  
Date: Thu, 9 Sep 1999 08:49:31 -0400  
From: "Mike Yettsko" <myetsko@insydesw.com>  
To: <cqsly@tm.net.my>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [49812] Re: My Perennial Question: Why 2 Fuses?  
Message-ID: <002001befac1\$f4c5fa00\$9001a8c0@mikey.wn.net>  
MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

>Why is the power cord for most rigs fitted with 2 fuses,  
>one on the positive(red) wire and the other on the negative(black)  
wire?  
>Is there any particular reason(s) for this?  
>  
>Then, there are some which are fitted with only one fuse on the  
postive(red)  
>wire?  
>Why the vast differences?

Ok, consider this. A rig is attached to a car by putting BOTH leads to the battery. The rig is mounted under the dash. At some point, either through the dash mounting bracket, or the antenna shield, the rig makes a bond to the body as a ground.

Now, consider that your starter draws HUNDREDS of AMPs, some close to a THOUSAND AMPs for short pulses when you start your auto's engine. The engine has HUGE cables to provide that power from the battery to the engine block.

The engine gets it's ground able to carry that massive current through a HUGE gound strap.

Straps have been known to fail. Now, with a failed ground strap, what is the return path for starter current? It CAN go through the body and through your rig!

Catastrophic failures of ground straps are not very common, but they do happen. In actual practice, that's more than likely the cause of most of the occurances of dashboard instrument cluster burnouts.

But do straps always fail? No. MUCH more common is they corrode. Just slightly. LONG before failure. So what happens is the HUGE starting current now routes 'slightly' through other paths....

Enough that it could route through your rig.

Should you double fuse your rig? I always would! But from a practical manufacturing standpoint, it would only be necessary if there were a DC path from the case or antenna to the DC negative lead. Remember though, that if someone puts an antenna with a coil on it, it MAY have a DC path to negative.

If you have NO DC paths to ground from anything on your rig or attached to it (remember, some people may ground one side of an external speaker) then double fuse. If your DC is capacitively coupled and no DC paths exist, then a single fuse is fine.

I suspect than units manufactured for either pos or neg ground would have isolated chassis and no ground paths, but then you'd want a fuse on the pos line, right?

Mike Yetsko  
N1DVJ

-----  
Date: Thu, 9 Sep 1999 15:14:58 +0200  
From: Alen Mitrovic <alen.mitrovic@hermes.si>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Cc: s57c@hamradio.si, vanjapegan@yahoo.com, s59ar@hamradio.si,  
borissvagelj@hotmail.com, matjaz.bucinel@intereuropa.si, marijan.miletic@ijs.si,  
rd@mehano.si,  
robert.vilhar@iskra-tr.si.hermes.si, makro5@siol.net, marsell@s-  
pomorska.kp.edus.si  
Subject: [49813] QRP-expedition  
Message-ID: <F27E71EFEFE6D211917900A0C955EF61E30BC1@hal9000.hermes.si>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="windows-1250"

Hi colleagues!

I will visit Croatian Island of Krk (IOTA EU136) for a week, starting on 11th of September. Will stay in hotel so I do not know how quality antennas will I use, but I expect use of dipoles or LW. I will run Sierra transceiver (1-2W) with ZM-2 tuner, on 20 and 15 meters, maybe also on 40. Aproximate activity time shall be at : 19 00-00 00 UTC and maybe 0500-0700 UTC  
Qrp frequencies + - 10KHz

See you on the air as 9A/S53MA/P - Qrp of course ;-)

Best 72/73 de Alen / S53MA - QRP



Personal Webpage: <http://www.qsl.net/s53ma>

---

---

Date: Thu, 09 Sep 1999 09:08:28 -0500  
From: "Brad Bradfield, PE" <b\_bradfield@yahoo.com>  
To: plburbank@kih.net, qrp-1@lehigh.edu  
Subject: [49814] Re: Rotten CW  
Message-ID: <37D7BF5B.AED6A226@yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Take us back to the days of T.O.M. anyday!!

Oh, well.

72's es 73's,

Brad, W5CGH

---

Date: Thu, 9 Sep 1999 06:39:39 -0700 (PDT)  
From: Philip Karras <ke3fl@yahoo.com>  
To: qrp-1@lehigh.edu  
Subject: [49815] QRP Weekend  
Message-ID: <19990909133939.21608.rocketmail@web110.yahoomail.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Well we went to Seven Springs PA this past weekend &  
among other things I worked 40 m QRP.

Set-up:

\* Homebrew 40-meter dipole tuned for 15 - 20 feet  
above the ground.

\* MFJ-9040 running at about 2.5 W output

\* 12V 7AHr battery

\* Homebrew straight key made from a piece of plexiglass a screw and a piece of brass shim stock.

\* some extra coax in case it rained, which it did.

When it was nice, Saturday, I sat outside under the antenna and made two contacts with K8BVJ and KB3AWR (also in PA) - On Sunday it was raining so I added about 20' of coax so I could stay inside (yah, a real wimp) but I made two more QSO's with KB9IHT and N2ZHF.

I was working as: KE3FL/QRP/130 and I did not make any contest QSOs, Monday we traveled back to Mt Airy MD and due to weather, traffic, and dropping a friend off it took forever!

I think two of the four contacts kept telling me how well the QRP/MFJ was doing- I guess they couldn't get over the fact that 2.5W actually works. :-)

I also have a wide band receiver & scanner which I hooked up to the 40-m dipole (which was up about 15 feet hooked to the railing on the top level of the cabin we were renting) which seemed to have a hotter receiver than the MFJ, tho' I didn't do enough testing to see if it was simply that it had a much broader input.

I had a great time doing the QRP for the fifth year with the lil MFJ & a very basic set-up.

72 & 73 de KE3FL

Phil

ps. Check out my website for some new links and info on emergency service operating. I also have a few free programs for downloading, one on Morse code, one for J-pole antennas, and one on antenna output & dipole bandwidth.

===

Phil Karras, KE3FL

ke3fl@arrl.net

Alt: ke3fl@juno.com

Web: <http://www.qsl.net/ke3fl>

---

Do You Yahoo!?  
Bid and sell for free at <http://auctions.yahoo.com>

-----  
Date: Thu, 9 Sep 1999 08:39:39 -0500  
From: "Randy Jouett" <rules@bellsouth.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [49816] Re: HTX-100 (or is it HTX-10?)  
Message-ID: <01fd01befac8\$e3b8e0e0\$6b66d6d1@spock>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

-----Original Message-----  
From: Michael A. Gipe <mgipe@reliablemeters.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Date: Wednesday, September 08, 1999 1:19 PM  
Subject: RE: HTX-100 (or is it HTX-10?)

Our Gang, (Or should will be called The Little Rascals, since we are  
a QRP group? :^). )

I've read so many different descriptions here about this rig,  
I don't know what to think :^). Even if the rig doesn't have CW,  
it will be a breeze to add it by either unbalancing the balanced  
modulator or injecting an audio tone on SSB. I would think that  
these mods would be out and about a few weeks after the rigs  
release.

What I want to know is: does the new rig beat out the HTX-100  
in specs and quality? If not, I'd hold on to those 100's.

72/73,

----

Randy Jouett, AB5NI

-----  
Date: Thu, 9 Sep 1999 09:03:00 -0500  
From: Bcieslak@ra.rockwell.com

To: QRP-l@lehigh.edu  
Subject: [49817] One More DXCC QRP comment  
Message-ID: <862567E7.004D388A.00@ramilwsmt01.ra.rockwell.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-Disposition: inline

Being in digest mode I usually get a chance to make a comment after everyone else is tired of the subject.

IMHO as a QRP'er I have more reverence for the QRP ARCI's Awards than the ARRL's. Hence I am not striving for an ARRL DXCC but working toward my QRP ARCI DXCC award. I've always considered QRP ARCI our national QRP organization and recognition of QRP efforts by them mean a lot more to me than recognition by the ARRL for my QRP efforts.

I do have one award from the ARRL that I am very proud of and that is my code proficiency certificate.. I worked hard for that one when I was a kid and each endorsement sticker has history associated with it. It's hung right next to my proudly displayed QRP-L Foxhunt participation certificate that reminds me of the two times I was a fox.

I'll shut up now.

Brian AE9K / qrp  
QRP ARCI #4641  
QRP-L #58

PS When are we going to have QRP-L award for working QRP-L members????

-----  
Date: Thu, 09 Sep 1999 07:06:35 -0700  
From: Phil Wheeler <w7ox@mindspring.com>  
To: QRP List <qrp-l@lehigh.edu>  
Subject: [49818] AA/AAA Battery Capacities  
Message-ID: <37D7BEEB.1BAB676D@mindspring.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

All ..

Can anyone point me to a website with info on AA and AAA Alkaline battery performance/capacity?

I'm building a 9-cell pack (about 14 volts beginning of life) pack for use in qrp portable, and can go either way (AA or AAA).

Info on the new Duracell Ultras would be especially good, since they would be better for TX and impose no size penalty.

72/73 ... Phil W7OX

-----  
Date: Thu, 09 Sep 1999 07:09:03 -0700  
From: Bill Jones <kd7s@psnw.com>  
To: qrp-1@lehigh.edu  
Subject: [49819] Salt Lake City Ham Shopping?  
Message-ID: <37D7BF7F.33BB79A1@psnw.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Next month I will be in Salt Lake City for four days at the bedside of a fellow ham (and QRP'er) who is having a kidney transplant. Are there any good ham radio or electronics surplus shopping opportunities in SLC?

--  
=====  
Bill Jones - KD7S <><  
Sanger, California  
<http://www.psnw.com/~kd7s>  
=====

-----  
Date: Thu, 9 Sep 1999 10:09:13 EDT  
From: Robsparks@aol.com  
To: qrp-1@lehigh.edu  
Subject: [49820] AR QRP 40m Net Results  
Message-ID: <abc28b8a.25091989@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

The AR-QRP Net 7 QNIs last night. The began at 0030Z and ended at 0103. Propagation was good and signal reports were, with one exception, 559's or better. Check-in went smoothly and quickly, thanks to everyone's flexibility with the "single letter/full call" technique. We are learning, and it is fun! The net is a fun place to just listen and brush up on CW, even if one does

not choose to QNI! Thanks to those who participated! Here are the stations that checked in:

W2XN            Fred  
N5IB            Jim  
KE4KR     Barrett  
KC4MHM   Ed  
K8NWD     Tim  
N5OBC     Mark  
AB5WX     Dave

The NCS was Bob AB5ZD, using the AR QRP Club call NQ5RP, QTH Alexandria LA, running 5 watts to a G5RV up about 25 feet in pecan trees. Orientation of the ant wire is NNW to SSE. Following is a list of Arkansas QRP Club nets:

Monday Night            0030Z            3.560 MHz  
Wednesday Night        0030Z            7.042 MHz

Non-members are welcome (and encouraged) to QNI!

72,

Bob AB5ZD

-----  
Date: Thu, 9 Sep 1999 10:12:56 -0400  
From: "Ed Tanton" <n4xy@att.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Cc: <ausham@rocknet.net.au>  
Subject: [49821] RE: An answer, a thankyou, an apology and a backlash...  
Message-ID: <NBBBJDEEIFDDANGEGHLBAENHGNA.n4xy@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
              charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I'm personally ashamed to hear about such behavior Dan-especially here on QRP-L. I don't think much of anything is going to alter what is going to happen regarding the code-but that doesn't excuse such behavior. I would also like to suggest that some of those 'comments' fall under the category of "making terroristic threats". Those people have a serious problem. I apologize for anyone from this country making such remarks-it's inexcusable, especially against a 14 year old. Lighten up people.

72 / 73   Ed   N4XY        email: <n4xy@arrl.net>

webpage: <http://www.qsl.net/n4xy/>

-----  
Date: Thu, 9 Sep 1999 10:58:58 EDT  
From: REDSBOY@aol.com  
To: qrp-1@lehigh.edu  
Subject: [49822] Re: Rotten CW  
Message-ID: <6077428f.25092532@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

No, Pete, while I agree whole-heartedly with you, that is NOT 'nuff sed!  
Perhaps someone needs to get out the ol' "Wouff Hong." CW can be so much  
easier if we all would use the "standard" abbreviations we used to pick up  
naturally by listening to CW conversations as we brought our code speed up.  
Those shortcuts save so much time and effort. For example: Instead of  
sending, "and now back to you to see if you are still reading me" just send  
"How?" and never use didahdidahdidah for a period when an X (dahdididah) does  
just fine. Sn = soon, Hw = how, GE = good evening, Tnx = thanks, "fer" = for,  
etc. Prepositions and articles can be left out, for the most part. Use a 3 X  
3 or 3 X 2 when calling CQ - meaning call CQ three times then sign your call  
2 or 3 times, then LISTEN.

Of course, Pete, I am preaching to the choir, since I know, by your e-mail,  
this stuff is old hat to you, but I am hoping some of the newer folks will  
read this and take a little time to examine what flows on a good CW QSO and  
learn that it can move much faster than what some folks think. But no matter  
what is put into the code one sends, it MUST be readable ! That's a "first"  
and a "must."

I haven't composed this very well, but I agree that CW is a beautiful  
language. If we all learn to speak it more fluently, it will be more  
enjoyable for all.

Oh ! Oh ! Here come the flames !

73,

Karl - W4UTI

-----  
Date: Thu, 9 Sep 1999 10:58:07 -0400  
From: "Stephen D. Cohen" <scohen@xps.xybion.com>

To: qrp-1@lehigh.edu, sdcohen@gte.net  
Subject: [49823] WestFLA Meeting Saturday 11 September, 1999  
Message-ID: <199909091509.LAA16676@nss4.cc.lehigh.edu>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

Ladies and Gentlemen,

The next meeting of the Western Florida QRP Club will be held this Saturday, the 11th of September 1999 at 10AM. The meeting will run until folks have had enough.

The WestFLA meetings run using the NorCal model, to wit, no new business, no old business, no business at all! It will simply be a meeting of like minded people to discuss QRP, homebrewing, kit building and the sort. As such, it is vitally important that people have things to discuss. Please bring a current project, special rig, piece of test equipment or some such to demonstrate and describe to your fellow ham.

As usual, coffee and donuts will be provided. A selection of door prizes will also be awarded, based on what members bring to give away. If you've got a treasure sitting in the junk box that you do not expect to use any time soon, why not bring it along for a door prize?

I have also brought a selection of test equipment to previous meetings to help folks with alignment and troubleshooting of their projects. Unfortunately, I will not be able to attend this month's meeting, so the test equipment selection may be smaller. I offer this in hopes that some of you with test gear will drag something along to the meeting and help a fellow QRPer with a project. Heck, if you drag the gear along, I am quite certain that Mike Maiorana will be more than happy to help folks troubleshoot. I am just sorry that I will not be there to taunt him while he does.

"So, Steve", you say, "Enough of the shuck and jive... Where is the place?". An excellent question. The TARC clubhouse is located in Tampa Florida. The directions to the clubhouse are:

Take I-275 North or South to the Sligh Exit. Once on Sligh, go east to 22nd Street. Turn left on 22nd Street and go to the very end. Once you are at the end of the street, the clubhouse is on your right next to the ball field. It will be obvious from the tower and antennas.

From north of Tampa, take route 75 south to 275 then follow



the above directions.

From south of Tampa, take route 75 north until you get to route 4 west which runs into route 275. You have a choice at 275, and you want to go north on 275 from route 4 and follow the above directions.

From the east, take route 4 west until you run into 275 then take 275 north from there and follow the above directions.

There will be a talk-in on the 147.105(+) N4TP repeater. Just give us a holler if you get lost.

These directions are also available on the TARC web page at <http://www.qsl.net/w4dug/way.htm> which is also linked from the WestFLA web page at <http://www.qsl.net/westfla>.

Questions can be forwarded to [westfla@qsl.net](mailto:westfla@qsl.net).

73,

Steve, N30IE

Stephen D. Cohen  
Engineering Manager  
Xybion Corporation, Sensor Positioning Systems  
11528 53rd Street North  
Clearwater, FLA 33760-4825  
[scohen@xybion.com](mailto:scohen@xybion.com)

-----  
Date: Thu, 09 Sep 1999 16:12:48 +0100  
From: Jack Bennett <[J.Bennett@lboro.ac.uk](mailto:J.Bennett@lboro.ac.uk)>  
To: [qrp-1@lehigh.edu](mailto:qrp-1@lehigh.edu)  
Subject: [49824] USA Visit  
Message-ID: <3.0.6.32.19990909161248.007ab430@staff-mailin.lboro.ac.uk>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hi Guys,

I will be visiting Boston on the 23rd Sept. and doing a tour finishing up at Niagra.

Whilst I am celebrating a fortieth wedding anniversary, I don't think I would get away with bringing a rig! Hi.

I will however I am sure get a little time to do some shopping ( sight seeing ).

Are there any ham shops in Boston worth a visit. I have an FT100 so I would be interested in accesories.

Many thanks in anticipation of a reply and the holiday.

72,

Jack

G3PVG : GQRP, NORCAL, ARCC.

-----  
Date: Thu, 09 Sep 1999 11:27:06 -0400  
From: Tom M <tjmc@erols.com>  
To: w7ox@mindspring.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [49825] Re: AA/AAA Battery Capacities  
Message-ID: <37D7D1CA.AF52F11@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

> I'm building a 9-cell pack (about 14 volts beginning of life) pack for  
> use in qrp portable, and can go either way (AA or AAA).  
>

Phil,

Not the current info but when I make a pack for cells, I do the following;

Build a ten cell pack..... AND, buy/make a Dummy cell!

This way you can use either 10 Nicads for 12v .... or , 9 Alk's batteries and the dummy cell for 13.5v

Both close enough in voltage without going to high when on Alkalines.

72/3

Tom AA2VK

-----  
Date: Thu, 9 Sep 1999 10:28:01 -0500  
From: "Mark Hogan" <mhogan@email.msn.com>  
To: "QRP LIST" <qrp-l@Lehigh.EDU>  
Subject: [49826] good home needs kit...  
Message-ID: <019301befad8\$4897a410\$6ae60181@mhoganws>

Somewhere on a shelf there sits an unbuilt Rainbow Tuner kit, just waiting for someone to build it and send some rf through it.

I wanna build one, if someone would be kind enough to sell me that kit :)

Anyone want to sell one?

Pretty Please...

Mark Hogan/N50BC

Please reply direct to keep traffic off the list  
mhogan@msn.com

-----  
Date: Thu, 09 Sep 1999 11:40:31 -0400  
From: jim seeber <kw3u@warwick.net>  
To: plburbank@kih.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [49827] Re: Rotten CW  
Message-ID: <37D7D4EF.130B5BC9@warwick.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

> Again BK is break...not back to you  
> 'nuf said...Pete NV4V vvvvv

Hoo Boy,

I've been using BK along with most of my contacts, and especially in contesting since way back when I used a wood burning radio.

what is the proper prosign? In traffic handling BT is used  
before signature for break text I believe.

This should be interesting.

72 Jim

kw3u

-----  
Date: Thu, 09 Sep 99 11:40:14 -0400  
From: chuck.olson@sbaonline.gov  
To: qrp-1@lehigh.edu  
Subject: [49828] T.O.M.  
Message-ID: <9909091140.A7036wk@sbaonline.gov>  
Content-Type: text

B\_>Take us back to the days of T.O.M. anyday!!

Brad -

Speaking of The Old Man - I was looking through W1FB'S QRP NOTEBOOK -  
on page 159 there is an interesting antenna support pictured.

Best Regards,

Chuck Olson, WB9KZY  
Jackson Harbor Press - <http://home.att.net/~jacksonharbor>

-----  
Date: Thu, 9 Sep 1999 09:49:11 -0600  
From: "Frank Ivan - K0FEI" <k0fei@ibm.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [49829] Re: An answer, a thankyou, an apology and a backlash...  
Message-ID: <032501befada\$dfb777b0\$be3f71ce@wtkr.nytimes.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Dave,

> Within a day of posting the message, stating the survey, I received  
> many email messages which blatantly abused and insulted me.

Sigh, I think the problem is that the members of the ham community are getting older and more set in their ways. The average ham is 53 years old. If someone says something we don't like, especially if it seems to have some merit, we become afraid that others (who are alas just too stupid to understand the real situation) may believe it and it becomes a threat. For some the response is to try to shout it down.

We seem to be a pretty closed minded group. You cannot talk about any antenna invented after 1940 on the antenna reflector, never mind it is being put into commercial use. You cannot discuss the merits of code on any ham reflector, you better just say how fast you can copy.

In a few years it will all probably be moot. Technology is passing us by (any ham you know doing anything with digital AM or digital FM for example?), but I hope to be up to 35 wpm by next year.

73 - Frank - K0FEI

-----  
Date: Thu, 9 Sep 1999 09:51:02 -0600  
From: Jeff Francis <jfrancis@frii.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [49830] Re: DSW-40  
Message-ID: <19990909095102.A951@geek.noducks.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

On Wed, Sep 08, 1999 at 10:32:14PM -0600, Jeff Francis wrote:

> One problem has appeared now that things are done though. If I  
> hold a finger on top of the final output transistor (right on metal  
> can), the thing hears like a champ. If I remove my finger (or move  
> it to any other part of the circuit), the radio goes as deaf as my  
> three-year-old when I tell him not to jump in the mud puddle. Any  
> suggestions, anyone? I'm a digital kind of guy, not analog, and  
> this analog stuff befuddles and confuses me when it doesn't do what  
> I think it ought to...

Got it! Thanks to the dozen or so people (wow!) who responded with suggestions. My favorite (but probably not the most useful) suggestion was W8TIF who suggested I superglue a non-cw-sending finger to the final. Clever, but probably not very practical. Besides, I'm not sure superglue makes a good RF conductor. I'll hook my finger up to my MFJ antenna analyzer and see if I tune up on 40 meters... In

all seriousness, the problem was L5 (the last inductor just before the antenna). Interestingly enough, that's where about 90% of you guys who mailed me suggested that I look. Thanks! Glad I was smart enough not to key it up in that state...

--

Jeff Francis - KC0BWS		Ack!
Level Three Communications		____/
Denver, CO USA DM79nr	You cannot strengthen the	\ o.0
	weak by weakening the	=(_)=
39d43m16.4s N 104d52m10.7s W	strong.	U
jfrancis@frii.com jeff@l3.net	--Unknown	
http://www.frii.com/~jfrancis		PRR...

-----  
Date: Thu, 09 Sep 1999 11:59:51 -0400  
From: Dave Hinerman <dlh1009@ritvax.isc.rit.edu>  
To: QRP-L <qrp-l@lehigh.edu>  
Subject: [49831] Re: TAYLOE DETECTOR?  
Message-ID: <001801befadc\$5d34c0c0\$2d0a05cc@eng05981246.rochester.com>  
MIME-version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-transfer-encoding: 7BIT

>Don't know about your questions but I did notice that Digi-Key has  
>started selling devices from TI in their last catalog. They do list the  
>74BCT3253 part that Dan used in his circuit but it's in a mini-skinny  
>surface mount package. Maybe someone can search the DK web site to see  
>if that part is available in DIP?

Chuck,

SBYL. (Sorry Bout Your Luck) Digi-Key lists all chips in that series (SN74CBTxxxx) as SOP ot TSSOP. Thanks for the reference, though - it's nice to know they have some REAL parts now. (Grin)

Now if they'll only stock tubes...

Dave

-----  
Dave Hinerman WD8CIV  
dlh1009@rit.edu

-----  
Date: Thu, 9 Sep 1999 09:03:33 -0700  
From: Bob Nielsen <nielsen@primenet.com>  
To: qrp-l@lehigh.edu  
Subject: [49832] Re: Rotten CW  
Message-ID: <19990909090333.B9843@bob.localnet>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

K should suffice.

On Thu, Sep 09, 1999 at 11:40:31AM -0400, jim seeber wrote:

> > Again BK is break...not back to you  
> > 'nuf said...Pete NV4V vvvvv  
>  
> Hoo Boy,  
> I've been using BK along with most of my contacts, and  
> especially in contesting since way back when I used a  
> wood burning radio.  
> what is the proper prosign? In traffic handling BT is used  
> before signature for break text I believe.  
> This should be interesting.  
> 72 Jim  
> kw3u  
>  
>

--  
Bob Nielsen Internet: nielsen@primenet.com  
Tucson, AZ AMPRnet: w6swe@w6swe.ampr.org  
DM42nh http://www.primenet.com/~nielsen

-----  
Date: Thu, 09 Sep 1999 09:07:58 -0700  
From: Bob Hightower <ki7mn@extremezone.com>  
To: ki6ds@dospalos.org  
Cc: qrp-l@lehigh.edu  
Subject: [49833] Re: Repost "What Kit to Buy, #8"  
Message-ID: <199909091603.JAA20687@enterprise.extremezone.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

At 08:09 PM 9/8/99 -0700, Doug Hendricks wrote:=20

>  
> You are a master builder now right?=A0 Wrong, there is the next step in  
> building, and I have a suggestion  
> as to what you should build next.  
>  
> The 2N2/40 designed by Jim Kortge has an unbelievable receiver in it, and  
the  
> rig is a lot of fun to build.=A0 This is  
> the next step for you K2'ers.=A0 Keep on melting solder.  
>  
> The 2N2/40 that was featured in the winter issue of QRPP and designed by=  
Jim  
> Kortge, K8IQY.=A0 This rig is built using a piece of 5" x 7" circuit board  
> with pads glued on as anchor points for the components.=A0 All of the=  
plans  
> are in the Winter issue of QRPP and the Spring issue of QRPP has a couple=  
of  
> pages of corrections.=A0 If you do not subscribe to QRPP, you can buy the  
> single issue from Paul Harden at QuickSilver Printing, P.O. Box 757,  
> Socorro, NM 87801.=A0 The cost is \$12 and he will even include the=  
additional  
> corrections that were in the spring issue.=A0 The price includes shipping.  
>  
> This book will take you through building the 2N2/40 using the pads.  
> Everything you need is there.=A0 Paul Harden did the illustrations, and=  
they  
> make building the rig a piece of cake.

>  
> And, there is another plus to this project.=A0 The Arizona ScQRPions have=  
a  
> board kit that  
> consists of a screen printed layout of the pads on a board.=A0 All you=  
have to  
> do is cut up  
> the pads from the strips of circuit board provided and glue them to the  
> board, tin them, and  
> then start building.

And, since we all do what Doug says :^), the AZ ScQRPions now have more of=  
the  
boards available. The cost is \$5.00 each, check payable to Bob Hightower. If  
you want to take this next step in building, send your check, with an=  
address  
label, to me at 1905 N. Pennington Drive, Chandler, AZ 85224-2632.



Dan's Small Parts has a partial parts kit that will be available on October 1st, which includes all resistors, capacitors, cores, inductors and semiconductors needed, plus all the pots except for the 10 turn 20K pot, and the audio transformer. Also included is the matched crystal set (Y1, Y2, Y3 matched to within 25 Hz). Total price is \$29.95. Add the 10 turn 20K pot,= and the parts kit is \$44.95. This is a much improved parts kit over that first offered.

So, there is no reason not to build one of these critters. Several are= already on the air, and some small mods/improvements are appearing. Jim Kortge K8IQY has done a great job on the design, and the rig is proven to work.

All proceeds of board sales go towards supporting the AZ ScQRPions Ft= Tuthill symposiums. We have no connection with Dan's Small Parts other than to offer our thanks for his support of the project.

Bob Hightower KI7MN

<http://www.extremezone.com/~ki7mn>

-----  
Date: Thu, 09 Sep 1999 12:06:08 -0400  
From: "Ed Hare, W1RFI" <w1rfi@arrl.net>  
To: qrp-l@lehigh.edu  
Subject: [49834] Re: USA Visit  
Message-ID: <37D7DAF0.192A@arrl.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Jack Bennett wrote:

> I will be visiting Boston on the 23rd Sept. and doing a tour finishing up  
> at Niagra.

Hi, Jack,

Boston is about a two hour drive (at the posted speed limits) from ARRL HQ in Newington, CT. If you can visit ARRL HQ during the week, you can get a nice tour and get to operate W1AW (/QRP, if you wish).

If you can only make it on the weekend, let me know; I can drive to work

and open the place up and let you see some of the highlights (and a lot of empty offices -- the staff work M-F).

73,  
Ed Hare, W1RFI  
ARRL Lab

-----  
Date: Thu, 09 Sep 1999 09:08:44 -0700  
From: Allan G Taylor <k7gt@arrl.net>  
To: qrp-l@lehigh.edu  
Subject: [49835] Re: Repost of the kit to build #5  
Message-ID: <37D7DB8C.62C0@arrl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

If someone has a copy of #5 of the KI6DS series, could they send me a copy? It doesn't seem to have made it to the Bay area. (Maybe it was all that lightning last night from tropical storm Greg? Spark, spark!)

K7GT

--

	/	
	/	
Allan Taylor K7GT	/Z  \	FISTS 3222 ARS 228
k7gt@arrl.net	/  /599  \	DXCC and WAS 40/cw
Pleasanton CA CM97aq	/_ /____ __\	<a href="http://www.qsl.net/k7gt">http://www.qsl.net/k7gt</a>
...QRO, QRP, or barefoot.....	[\-----/	

-----  
Date: Thu, 9 Sep 1999 09:12:38 -0700  
From: Marv Fagenson <k6hcj@juno.com>  
To: qrp-l@Lehigh.edu  
Subject: [49836] General Class Theory  
Message-ID: <19990909.091251.-456487.2.k6hcj@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

San Fernando Valley Amateur Radio Club (SO.CA)  
is offering a general class theory course beginning 9/21 at Northridge

Hospital at 7PM. We will run 11 consecutive Tues eves to prepare for Dec. 99 testing.

If you desire more info, please call me at 818-780-3999. Everyone welcome!

Marv Fagenson  
k6hcj@Juno.com

-----  
Get the Internet just the way you want it.  
Free software, free e-mail, and free Internet access for a month!  
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

-----  
Date: Thu, 9 Sep 1999 09:23:37 -0700  
From: "Barry L. Geipel - AD6HR" <bgeipel@primenet.com>  
To: <plburbank@kih.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [49837] Re: Rotten CW  
Message-ID: <003b01befadf\$abdbeac0\$5dc9bbc0@cwil.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I am new to all of this and I generally go more by what I read and hear on the air. I am also an avid CW traffic handler.

BT = Break in text (between address and text and text and signature  
BK = Break (as in let me in)  
KN = Over and back to you

Abbreviations and short cuts are the hardest thing for me to get used to, but I am learning!

73 es cul  
Barry AD6HR

> Well H.P. Maxim is surely in a different dimension by now but might  
> be monitoring the CW sending going on.  
> BK is break not back to you....  
> Spacing...A Smile is as good as a wink..."Rolling Stones"...  
> Decent CW depends on SPACING....  
> CW smeared together is tough to read and sounds like junk!!!  
> Again BK is break...not back to you  
> 'nuf said...Pete NV4V vvvvv  
>

-----  
Date: Thu, 9 Sep 1999 11:18:25 cdt  
From: Bill H Hays <wj5o@juno.com>  
To: TENTEN-L@LEHIGH.EDU, QRP-L@LEHIGH.EDU  
Subject: [49838] Radio Shack 10M rig  
Message-ID: <19990909.111826.-961105.1.WJ50@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

What, no CW?  
No big thing. Insert a mic connector to "key" the PTT circuit on AM.  
Volia! True CW.  
I've been doing it for over 7 years on the WJ50/BCN and works FB for  
Transmit.  
Has to be a BFO somewhere inside that can be "led" to receive CW.

73 Bill     "Sparkling City by the Sea"     WJ50/B   28.289MHz  
                 Corpus Christi, Texas

-----  
Get the Internet just the way you want it.  
Free software, free e-mail, and free Internet access for a month!  
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

-----  
Date: Thu, 09 Sep 1999 09:28:28 -0700  
From: Allan G Taylor <k7gt@arrl.net>  
To: qrp-l@lehigh.edu  
Subject: [49839] FS: Auttek RF-1  
Message-ID: <37D7E02C.35D7@arrl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I have an Auttek RF-1 that I am willing to sell or trade. Asking  
price (firm) is \$85 + shipping. I am, as always, looking for Bencher or  
HamKey paddles (iambic) in partial trade.

--  
  
Allan Taylor   K7GT

                 |  
                 /|  
                 / |  
                 /Z |\

FISTS 3222 ARS 228

k7gt@arrl.net                    /| /599| \     DXCC and WAS 40/cw  
Pleasanton CA CM97aq           /\_|/\_|\_|\_|\_|\_ \     http://www.qsl.net/k7gt  
...QRO, QRP, or barefoot..... [\-----/

~~~~~

-----

Date: Thu, 09 Sep 1999 11:37:14 -0500  
From: Dave Sjolín <sjolin@swbell.net>  
To: wj5o@juno.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [49840] Re: Radio Shack 10M rig  
Message-ID: <37D7E23A.164A5EC8@swbell.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

Bill H Hays wrote:

>  
> What, no CW?  
> No big thing. Insert a mic connector to "key" the PTT circuit on AM.  
> Volia! True CW.  
> I've been doing it for over 7 years on the WJ50/BCN and works FB for  
> Transmit.  
> Has to be a BFO somewhere inside that can be "led" to receive CW.

Maybe but have fun setting the offset so you can zero beat.  
73 de Dave, N0IT

-----

Date: Thu, 9 Sep 1999 12:41:42 EDT  
From: REDSBOY@aol.com  
To: bgeipel@primenet.com, qrp-1@lehigh.edu  
Subject: [49841] Re: Rotten CW  
Message-ID: <a1690974.25093d46@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Hi Barry. . .

Well, you are right in that the abbreviations are a little tough to get, but they do save so much time and effort. I think you will find that "K" is a general invitation to transmit while KN is an invitation to ONLY ONE STATION to transmit. So if I send AD6HR de W4UTI KN that means that Barry, and only Barry, is being asked to transmit to me, and all you other folks out there who are just dieing to get in on this fantastic conversation will have to

wait until we are finished and either we send a "K" or an "SK" (which means we have exhausted each other and are terminating this QSO) so long as a "CL" isn't sent, which means I am closing down and will answer no more calls, no matter how great a DX station you are.

Ain't CW GREAT?

73, Karl - W4UTI

-----  
Date: Thu, 09 Sep 1999 11:41:46 -0500  
From: "Joel Kluender, NF9K" <nf9k@eudoramail.com>  
To: qrp-1@lehigh.edu  
Subject: [49842] Question for Minnesota QRP'ers  
Message-ID: <GGPIDOJJHKKFAAAA@shared1-mail.whowhere.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

All,

I'm contemplating a QRP Afield operation from Tower Hill Park in Minnetonka (highest point in Hennepin Cty.). The questions I have are:

(1) Is anyone else planning to operate there? I don't want to muscle in on someone else's territory late in the game

(2) Has anyone else ever operated there? What were your experiences?

(3) Can anyone give me the name of someone in the Parks Dept. or PD in Minnetonka whom I could contact regarding my possible operation?

Thanks for the info & 73,  
Joel NF9K

---  
Joel Kluender, NF9K  
870 Prairie Street S.  
Shakopee, MN 55379

Great is the Lord, and worthy of praise!

Join 18 million Eudora users by signing up for a free Eudora Web-Mail account at  
<http://www.eudoramail.com>

-----  
Date: Thu, 9 Sep 1999 12:57:32 -0400  
From: "Vincent Ferme" <vferme@sprint.ca>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [49843] Re: An answer, a thankyou, an apology and a backlash...  
Message-ID: <001a01befae4\$69d66ba0\$e21105d1@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Dave,

> Within a day of posting the message, stating the survey, I received  
> many email messages which blatantly abused and insulted me.

Fortunately, it's a "very small minority" that will resort to abuse and  
insults. Even better, they seem to be consistent. The solution: filter them.  
I've been in internet heaven since learning how to use e-mail filters. :))

73 and keep smiling.

Vince, VE3VFN.

-----  
Date: Thu, 9 Sep 1999 10:05:10 -0700 (PDT)  
From: Monte Stark <ku7y@dri.edu>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [49844] Re: Rotten CW  
Message-ID: <Pine.GS0.4.10.9909090936340.12168-1000000@rotor.dri.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

\*\*\* snip \*\*\*

> I am also an avid CW traffic handler.  
>  
> BT = Break in text (between address and text and text and signature  
> BK = Break (as in let me in)  
> KN = Over and back to you  
>

\*\*\* snip \*\*\*

> > CW smeared together is tough to read and sounds like junk!!!

> > Again BK is break...not back to you

The meaning of the prosigns change with time.....this has nothing to do with what we want or like! Somewhat like the word "gay" in the English language....much different now than just a few years ago!

The 1967 and 1976 ARRL handbooks show that the prosign BK is to be used meaning either "I am using BreakIn operation" or to send when "breaking in" when someone is sending.

The 1994 ARRL Handbook shows the prosign BK as meaning "Back to you".

All three agree that the prosign KN means that only the station you designate is to send. (As in ONLY the station I'm already in QSO with....all others please stand by and DO NOT break in).

FWIW.....the 1976 ARRL Handbook also mentions the use of the letter "C" when asking if the frequency is in use, as in sending "C" and if someone is there using the freq they would reply with "R", "yes" or something to let the asking station know. Of the three Handbooks shown, this is the only one that mentions using "C" this way.

While traffic nets and the like can and do agree ahead of time on what meaning they have for the different prosigns and abbreviations, we casual operators don't have that ability!

Some may agree to "this" meaning "that" but overall agreement will never be had.....that's just the real world!

So our job, as we become more and more proficient in CW is to tell what it means by how/when it's used.

Again, it's similar to the English language.... as in "Four", "For" and "Fore"..... :-)

What is many orders of magnitude more important is to send whatever you are sending so the other station can copy!



Always remember the 3 to 1 ratio and use it.

So don't loose much sleep over which prosign you are going to use because it may or may not mean the same thing to both of you but DO spend time learning to send "good" CW!

I think the same might be true as applied to SSB/AM/FM and the digital modes.

Whatever method you use, work hard to use it "right".

And I'd like to suggest getting old handbooks whenever you can. They are a fantastic history course that is fun reading!

BTW: I'm looking for a 1953 ARRL Handbook in at least fair shape.....I long ago lost mine!

OK, back in my hole....

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....  
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

-----

Date: Thu, 09 Sep 1999 10:40:03 MST  
From: "Chuck Adams, K7Q0" <k7qo@hotmail.com>  
To: plburbank@kih.net  
Cc: qrp-l@lehigh.edu  
Subject: [49845] Re: Rotten CW  
Message-ID: <19990909174004.92842.qmail@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

I have to argue with this one.

<bk> as a prosign is break

bk as two separate is the abbreviation for back

FYI

Chuck Adams K7QO CP-60 k7qo@hotmail.com <http://www.qsl.net/k7qo>

-----  
Get Your Private, Free Email at <http://www.hotmail.com>

-----  
Date: Thu, 9 Sep 1999 13:37:55 -0400  
From: "Mike Yetzko" <myetzko@insydesw.com>  
To: <sjolin@swbell.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [49846] Re: Radio Shack 10M rig  
Message-ID: <00a701befaea\$16f37da0\$9001a8c0@mikey.wn.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Just use SSB and feed a keyed tone to the rig. Probably work better than trying to TX/RX cycle with the PTT.

Mike  
N1DVJ

>Bill H Hays wrote:  
>>  
>> What, no CW?  
>> No big thing. Insert a mic connector to "key" the PTT circuit on AM.  
>> Volia! True CW.  
>> I've been doing it for over 7 years on the WJ50/BCN and works FB for  
>> Transmit.  
>> Has to be a BFO somewhere inside that can be "led" to receive CW.  
>  
>Maybe but have fun setting the offset so you can zero beat.  
>73 de Dave, N0IT  
>

-----  
Date: Thu, 09 Sep 1999 13:49:41 EDT  
From: charles k brown <n4so@juno.com>  
To: qrp-1@lehigh.edu  
Subject: [49847] HTX-10 RadioShack SSB/FM transceiver  
Message-ID: <19990909.174804.7711.15.n4so@juno.com>

RadioShack part number 19-1110  
page 76 in the new catalog// Cost 149.95

Current status is "Special Order"

Several 28 MHz CW beacons are using the older model HTX-100 made by  
Uniden. One beacon that comes to  
mind is W6TOD/bcn, using the HTX-100 at 10 watts.

Ken Brown N4SO  
Mobile, AL/EM50tk  
NorCal-20/5 watts/4 ele. beam  
FR5FD Reunion Island 14.009/ 1342Z makes  
64 countries on the NC-20 at 5 watts

---

Get the Internet just the way you want it.  
Free software, free e-mail, and free Internet access for a month!  
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

---

Date: Thu, 9 Sep 1999 13:53:08 -0400  
From: "Richard Hensel" <rrhensel@sprintmail.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [49848] RE: Rotten CW  
Message-ID: <003901befaec\$2d02d9e0\$0317e590@nosrrhensel>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I always thought that BT was the prosign for break  
-...- dadididida

Richard Hensel  
SPRINT  
rrhensel@sprintmail.com  
n8wlc@arrl.net

When you have a hammer in your hand ...  
The whole world looks like a nail.

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of

Chuck Adams, K7Q0  
Sent: Thursday, September 09, 1999 1:40 PM  
To: Low Power Amateur Radio Discussion  
Subject: Re: Rotten CW

I have to argue with this one.

<bk> as a prosign is break

bk as two separate is the abbreviation for back

FYI

Chuck Adams K7Q0 CP-60 k7qo@hotmail.com <http://www.qsl.net/k7qo>

-----  
Get Your Private, Free Email at <http://www.hotmail.com>

-----  
Date: Thu, 9 Sep 1999 13:04:08 -0500  
From: "Kevin Muenzler WB5RUE" <wb5rue@stic.net>  
To: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>  
Subject: [49849] RE: Radio Shack 10M rig  
Message-ID: <000001bfaed\$bc15c8d0\$ef5d6f81@uthscsa.edu>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

This works. I'm using a Yaesu FT-890 on RTTY with the tones fed into the audio input. You can do CW just fine by feeding a GOOD tone into the mic.

Kevin, WB5RUE

> -----Original Message-----  
> From: owner-qrp-1@Lehigh.EDU  
> [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of  
> Mike Yetsko  
> Sent: Thursday, September 09, 1999 12:38 PM  
> To: Low Power Amateur Radio Discussion  
> Subject: Re: Radio Shack 10M rig  
>

>  
> Just use SSB and feed a keyed tone to the rig. Probably work  
> better than trying to TX/RX cycle with the PTT.  
>  
> Mike  
> N1DVJ  
>  
>  
> >Bill H Hays wrote:  
> >>  
> >> What, no CW?  
> >> No big thing. Insert a mic connector to "key" the PTT  
> circuit on AM.  
> >> Volia! True CW.  
> >> I've been doing it for over 7 years on the WJ50/BCN and  
> works FB for  
> >> Transmit.  
> >> Has to be a BFO somewhere inside that can be "led" to receive CW.  
> >  
> >Maybe but have fun setting the offset so you can zero beat.  
> >73 de Dave, N0IT  
> >  
>  
>

-----  
Date: Thu, 09 Sep 1999 12:15:31 -0600  
From: Bruce Kizerian <kizerian@ced.utah.edu>  
To: paul taylor <ptay1@bestweb.net>, qrp-1@Lehigh.EDU  
Subject: [49850] Re: ElmeRadio Pixie  
Message-ID: <37D7F943.D3434B72@ced.utah.edu>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

paul taylor wrote:

> >  
> >1. Replacement of the LM386 with the TL431. This will yield  
> >a 6-10dB improvement in audio gain.  
> >  
> HELP Mouser does not have a cross over.

Paul

See the ElmeRadio schematic at  
[http://www.xmission.com/~dcarc/contests\\_elmeRadio.htm](http://www.xmission.com/~dcarc/contests_elmeRadio.htm) and Charles  
Wenzel's crystal radio amplifier at  
<http://www.wenzel.com/pdffiles/TL431.pdf>.

The TL431 is a shunt voltage regulator (i.e. a variable zener)  
that just happens to work as an audio amplifier. You can get it at

Mouser, part no. 511-TL431CZ for \$.30. Not as clean as a LM386,  
but lots of gain and easy to use.

I have a SPICE subcircuit for the TL431, if anyone is interested.

Have fun, and please let me know how it works out.

Bruce kk7zz

-----  
Date: Thu, 09 Sep 1999 14:22:06 -0400  
From: Pete Burbank <plburbank@kih.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [49851] More on rotten CW  
Message-ID: <3.0.32.19990909142202.0068b984@kih.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Gang,  
I hope I haven't opened a can of worms on this topic.  
My reaction when hearing BK is to grab the key and reply.  
Back to you seems inane and useless..there are other turnovers  
available such as How Cpi? or just HW?  
Just my opinion but standardized abbreviations allow a rapid  
exchange of basic info which hopefully leads to a friendly  
ragchew.  
Back to you is a conversation "filler" and doesn't mean a  
whole lot.  
I'd rather hear about your rig or children or job or whatever.  
Part 2 of my comments was about spacing. The space is as much a  
part of the information flow as the dits and dahs.  
As Monte says...  
"Back in my hole"  
72/3/88 Pete NV4V

-----  
Date: Thu, 9 Sep 1999 14:30:35 EDT  
From: REDSBOY@aol.com  
To: qrp-1@lehigh.edu  
Subject: [49852] Better CW  
Message-ID: <91007921.250956cb@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

I have been pleasantly surprised that instead of flames, there have been several great responses to my e-mail re: CW. It seems that everyone wants to do it "right" and some are having a little trouble finding out just what is "right." It's okay if we aren't all in complete agreement.

If you consider yourself a little unsure of your CW technique, this e-mail is NOT for you, but if, down deep in your heart you know you are a crusty ol' died-in-the-wool CW curmudgeon, how about you and I do something constructive? Instead of playing, "Ain't It Awful," let's swear to ourselves that, AT LEAST ONCE A WEEK, we will slow down that keyer or bug and go up above 7030 kc and find someone we suspect is less experienced with the brass? And then get in an honest-to-goodness QSO with that person. No, I am not talking about a wham-bam, RST exchange and a CUL. I mean a CW conversation about the WX, the rig, antennas in general, the state of the nation, or anything that will involve a good rag-chew. We'll try to trot out our best technique and demonstrate what we prefer to think it was like in the good ol' days. We won't be perfect, and we won't always agree, but we can TRY to make this language better, faster, easier for anyone who wants to use it.

I'll bet that not only will we feel better, and OUR skills will improve, but we will also have one rip-roarin' good time. But if you aren't willing to try this with me, then in the famous words of Ann Landers, "Kwitcher Bitchin."

Hang onto your paddles, boys, cuz CW SHALL RISE AGIN!

73,

Karl - W4UTI

-----  
Date: Fri, 10 Sep 1999 02:31:01 +0800  
From: "Sly (9M8SL)" <cqsly@tm.net.my>  
To: <qrp-1@Lehigh.EDU>  
Subject: [49853] Re: My Perennial Question: Clarified...  
Message-ID: <19990909183101.PTMB24779@User>

Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hi Gang,

Tks all for the useful inputs.  
I was thinking more along the line of a QRP rig out in the fields, i.e.  
backpacking with a battery pack.  
Should I used the 'double-fused' (mostly Japanese rigs) or 'single-fused'  
method for such a case?

Some more inputs to clarify the case would be deeply appreciated.  
Tks agn, gang. It's really useful...

de Sly, 9M8SL  
fm 'The Hidden Paradise of Borneo'

++++  
++++

At 08:36 PM 9/9/99 +0800, you wrote:

>Hello All,

>

>I have a perennial question that is bordering me for years.

>Not exactly QRP, but vy close...

>

>Why is the power cord for most rigs fitted with 2 fuses,

>one on the positive(red) wire and the other on the negative(black) wire?

>Is there any particular reason(s) for this?

>

>Then, there are some which are fitted with only one fuse on the postive(red)  
>wire?

>Why the vast differences?

>

>Finally, which would give a better protection(s) to our QRP rigs?

>

>Will be glad to receive inputs on the perennial question, and do tell all...

>

>Vy 72/73 de Sylvester Liew, 9M8SL

>fm Sarawak: 'The Hidden Paradise of Borneo'.

>

>

>

>

>

>

>



>  
>  
>  
>  
>

-----  
Date: Thu, 09 Sep 1999 13:36:54 -0500  
From: Brian Murrey <brian@iquest.net>  
To: rrhensel@sprintmail.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [49854] Re: Rotten CW  
Message-ID: <37D7FE46.E251A333@iquest.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I always thought, and I guess a lot of others do too, that BT  
(dadididida) meant..."Hang on a second, I forgot what I was going to say  
next, but it'll come to me, just wait a minute, oh yeah here it comes  
now..."

EEEEEEEEEEEEEEEEEE BEEEEEEEEEEEEEEEEEE OM ONDA HB RIG BT UR SIG IS GUD INTO  
MOBILE, AL, BK

72

Richard Hensel wrote:

>  
> I always thought that BT was the prosign for break  
> -...- dadididida  
>  
> Richard Hensel  
> SPRINT  
> rrhensel@sprintmail.com  
> n8wlc@arrl.net  
>  
> When you have a hammer in your hand ...  
>           The whole world looks like a nail.  
>  
> -----Original Message-----  
> From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of  
> Chuck Adams, K7QO  
> Sent: Thursday, September 09, 1999 1:40 PM  
> To: Low Power Amateur Radio Discussion  
> Subject: Re: Rotten CW

>  
> I have to argue with this one.  
>  
> <bk> as a prosign is break  
>  
> bk as two separate is the abbreviation for back  
>  
> FYI  
>  
> Chuck Adams K7QO CP-60 k7qo@hotmail.com <http://www.qsl.net/k7qo>  
>  
> -----  
> Get Your Private, Free Email at <http://www.hotmail.com>

-----  
Date: Thu, 9 Sep 1999 11:39:41 -0700 (PDT)  
From: Paul Erickson <paule@sfu.ca>  
To: qrp-l@lehigh.edu (qrp), qrp-canada@lists.gpfn.sk.ca (qrp-canada)  
Subject: [49855] Source of good inline fuse holders?  
Message-ID: <199909091839.LAA23975@fraser.sfu.ca>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Anyone know a good source of inline fuse holders? The ones I normally find are pretty flimsey, designed apparently to go inside a box.

Thanks in advance.

cheers, Paul - VE7CQK - email: paule@sfu.ca

-----  
Date: Thu, 9 Sep 1999 11:51:50 -0700  
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)  
To: <qrp-l@lehigh.edu>  
Subject: [49856] Pacificon is Coming!!  
Message-ID: <01befaf4\$60ef1cc0\$630a0d0a@doug.dpol.k12.ca.us>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Guys, NorCal is sponsoring another QRP Forum at the Pacific Division ARRL Convention, which we all call Pacificon on Oct. 15, 16 & 17. We have expanded the activities this year and hope that you can attend and be with

us. Here is the information to make room reservations at the Sheraton-Concord in Concord, California which is where we will be having the activities.

The Sheraton is offering convention attendees and exhibitors a special Pacificon 99 room rate of only \$79 for each night (single/double), if reservations are made before October 1, 1999. You must ask for the Pacificon 99 rate before October 1st when you make your reservations to get this special rate. To make reservations, call 1-800-325-3535. The Sheraton is a very nice hotel, and rooms normally are \$125 per night.

There is a Pacificon web site and the URL is [http://www.pacificon.org/pac99\\_1.html](http://www.pacificon.org/pac99_1.html) check it out for more information.

Now for what's happening with QRP Activities. First of all, we are having an early bird special for all of you guys who show up Friday. Starting at 1:00, I will be in the lobby with 50 transmitter/receiver kits to give away to the first 50 qrpers who ask me for them and agree to build them that afternoon. The kits are the famous Tuna Tin 2 transmitter designed by Doug DeMaw, and the MRX Columbus QRP Club Receiver designed by Steve Bornstein. Both the transmitter and receiver are crystal controlled, and you will be getting a complete kit, all parts, wire, pc boards, connectors, controls, everything. We'll even throw in a dummy load kit and a 6 foot piece of wire. Why? Because Friday night at 8 PM, Mike Gipe is going to do a special Pacificon Fox Hunt. He will have his K2 and will be the fox. All of the guys who get their kits working will try and work Mike in the special 1 hour Pacificon Fox hunt, using their dummy loads with a 6 foot piece of wire attached!! The builders will need to bring their own tools, soldering iron, solder, diagonal cutters, needle nose pliers, etc. Just think of it, 50 Tuna Tin 2 transmitters and MRX receivers trying to work the fox. Everyone has the same antenna, the same transmitter, the same receiver. Talk about a level playing field. We will post the results on QRP-L and you guys will get to see how the hunt came out. Note: This is not part of the regular QRP-L Fox hunt.

The next activity is a no host dinner at Fuddruckers Hamburger Emporium just a half mile down the road. We'll all go there at 6:00 PM to have dinner together, dutch treat. The neat thing about this restaurant is that the food is good, service is fast, and you pay as you go through the line. No hassles like last year with Tony Roma's when they didn't have enough room, made us put it all on one ticket, etc. It worked out fine, but it was a huge hassle.

Then after dinner, we will go back to the hotel for the first night of the QRP Hospitality room. We have the room that Dave Fifield, Roy Lewallyn, Bill Jones, and Ade Weiss talked in last year for the hospitality room both Friday and Saturday night. I'll have the compendiums ready to hand out, and you can get your copy early to check out the speakers for Saturday. The

reason that we are having a QRP hospitality room on Friday night in addition to Saturday is that I don't want 67 people in my hotel room again!! (That really happened last year.)

Mike Gipe will do the Fox Hunt at 8:00 PM, we'll figure out the logistics when we get there. But the rest of the time will be spent visiting, with nothing else planned. Bring your show and tell goodies to display if you like, and vendors are invited to set up and sell at the Hospitality room, contact me for information.

Saturday is the big day. The speakers are outstanding, and they include, Joe Everhart who will talk about QRP Quickies. Joe has had something like 29 or 30 of them published in QQ, the arkie journal, and has promised a couple of new ones. He is one of the movers and shakers of the NJ QRP Club, and we are very fortunate to have enticed Joe to come to California.

Mike Gipe is no stranger to qrp-l. He is an amazing guy. He is an outstanding designer, debugger, builder, and operator. Last year he was one of the best Foxes ever, demonstrating his ability to handle a huge pile up. Mike will talk about contest operating as a qrper, and secrets of how to work the fox. Mike has never won the Fox Hunt, but he has finished second as a hunter, and second as a fox. He will use some of his experiences as a fox to illustrate how to grab the furry one!!

Paul Harden is a QRP Hall of Famer, one of the giants in QRP today, and his talks are legendary. Everyone who hears him comes away shaking their heads in amazement. He is one of the greatest teachers I have ever seen. He has the gift of taking difficult material and making it easy to understand. Paul will talk about Regen Radio Receivers, and how they are a great tool to understanding how receivers and electronics work. You won't want to miss this one.

Jim Kortge is coming from Michigan, and it will be his first trip to Pacificon. Jim loves to operate QRP, and operates QRP mobile, on a bicycle!! Jim's claim to fame, though, has to be the 2N2/40 rig that was the winner of the NorCal 2N2222 building contest last year at Dayton, and was the subject of the Winter 98 issue of QRPP. Jim wrote a construction article that is an all time classic on how to build using the Manhattan style of building. Paul Harden did the illustrations, and the two of them as a team are unbelievable. Jim's radio, the 2N2/40 has been built by several hams, and many more are under construction. The builders are all amazed and pleased at the quality of the rig that they are able to build. It is a serious radio, and a blast to operate and build. Jim is going to speak about his newest creation, the 2N2/6 which is a 6 meter transceiver using 2N2222's and the same type of construction.

Jim Duffey, aka Dr. Megacycle, will be our antenna guru at Pacificon. Jim lives in Cedar Crest, New Mexico and is an avid QRP operator and antenna

experimenter. Jim's talk on receivers that he gave at Ft. Tuthill was one of the best that I have ever heard, and I know that he will do an equally good job with antennas. I don't know what it is about guys from New Mexico, but Jim is also a wonderful teacher. He too, can take a very complex subject, and break it down into modules that everyone understands. He then puts it back together, and you get the whole picture. Jim also is famous for operating from the 4 Corners area along with Roger Hightower during QRP to the Field.

Our guest from England this year is Dick Pascoe. Dick is another QRP Hall of Famer, and is from Folkestone, England. His house sits on a hill over looking the English Channel, and he literally has a straight shot into Europe. He was the former owner of Kanga Kits, and has been a fixture at Dayton for years in the G-QRP club booth. He writes QRP columns for 3 different U.K. magazines, has written two outstanding QRP books, and is one of the most entertaining speakers you will ever hear. Dick will talk on the history of QRP in Europe, and give us some insights on what it is like to be a QRPer in England. He will also give us the history of QRP clubs, and you will hear some interesting details on the first QRP Club. (Hint, it wasn't in the U.S., not by a long shot!!).

All of the speakers will be on the agenda starting at 9:00 AM Saturday, with sessions at 10:00, 11:00, a noon break from 12 to 1, and then sessions at 1, 2 and 3 PM.

Saturday night will feature another QRP Hospitality room starting at 7 PM, and we have the large room again. (They learned last year that they don't want to put us in the basement again!! The fire marshall would have gone ballistic if he had been there.)

We will have the judging of the two Pacificon Building contests, the Regen and the 2N2/40. Yes, we have two contests this year. One is for regens, it must work, and all entries are welcome. We do ask that you provide a copy of the schematic and a writeup explaining your circuit with details of its features. They don't have to be all homebrew either. You can enter a kit, your own creation, a copy of an old time regen, what ever stirs your fancy. The second building contest is for the 2N2/40 transceiver that was designed by Jim Kortge and was featured in the Winter 98 issue of QRPP. The judges for the contest will include Jim Kortge himself!! What an honor.

This year we will be giving plaques instead of kits and other prizes from the vendors. There will not be a drawing for prizes, as we appreciate all that the vendors have done for QRP, and want to give them a break at Pacificon. NorCal will pay for the plaques and we won't have to worry about having a drawing. We will award 3 plaques in each division. That means the judges will have to make a decision as to first, second and third place. There will not be any ties (this is the Chuck Adams K5F0 rule (yeah I know he is K7Q0 now, but he was K5F0 when he cost me about \$200 for prizes when

he had a 7 way tie for 5th place at the first building contest we had at Dayton.)).

Again, vendors are encouraged and invited to set up there wares at the hospitality room. Please let me know if you plan on being there as a vendor so we can help you with the details.

Also, Jerry Parker, WA00WR is kindly providing fantastic laminated special limited edition name badges that have become a tradition at QRP events. Send him email at [jparker@fix.net](mailto:jparker@fix.net) with your name and call, and he will get you a name badge made, absolutely FREE.

And, that brings up a point. There is no additional charge for the QRP events at Pacificon. NorCal QRP Club is paying all of the expenses for the QRP Forum, including hotel and air fare for the speakers (we do this to attract world quality speakers to the west coast), the special Pacificon Compendium that will contain summaries of all talks, and other QRP information, the plaques for the building contests, the name badges from the excess proceeds generated from club activities including QRPP and Club projects, the hospitality rooms, etc. It is our way of getting rid of the surplus generated. Jim and I both feel that this is the best way to keep from building up a huge treasury. We want to invest in QRP.

Hope to see you at Pacificon 99.

72, Doug, KI6DS

Sunday morning we plan to get together for breakfast in the hotel restaurant in small groups.

-----  
Date: Thu, 9 Sep 1999 14:50:42 -0400  
From: "Mike Yetsko" <[myetsko@insydesw.com](mailto:myetsko@insydesw.com)>  
To: <[paule@sfu.ca](mailto:paule@sfu.ca)>, "Low Power Amateur Radio Discussion" <[qrp-l@Lehigh.EDU](mailto:qrp-l@Lehigh.EDU)>  
Subject: [49857] Re: Source of good inline fuse holders?  
Message-ID: <013b01befaf4\$531e2000\$9001a8c0@mikey.wn.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Check out stereo shops. With car audio approaching 4 digit power figures, they have some pretty substantial hardware now.

Radio Shack carries 'amp installation kits' for up to 500watt amps, but that's \$50. They sell a single 'AGU fuseholder for \$10, and they

sell AGU fuses up to 60 amps for car use. Not to mention power distribution blocks, 8ga power cable, and clamps and such. They have a whole page (about 2/3 full of actual stuff) in the new catalog dedicated to 'power distribution' for cars.

Mike Yetsko  
N1DVJ

>Anyone know a good source of inline fuse holders? The ones I normally  
>find are pretty flimsey, designed apparently to go inside a box.  
>  
>Thanks in advance.  
>  
>cheers, Paul - VE7CQK - email: paule@sfu.ca  
>  
>

-----  
Date: Thu, 9 Sep 1999 14:55:35 -0400  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <cqsly@tm.net.my>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [49858] Re: My Perennial Question: Clarified...  
Message-ID: <014c01befaf4\$eae39460\$9001a8c0@mikey.wn.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

If you're 'self contained', I see no reason to double fuse.

Mike  
N1DVJ

>Tks all for the useful inputs.  
>I was thinking more along the line of a QRP rig out in the fields, i.e.  
>backpacking with a battery pack.  
>Should I used the 'double-fused' (mostly Japanese rigs) or  
>'single-fused'  
>method for such a case?  
>  
>de Sly, 9M8SL  
>fm 'The Hidden Paradise of Borneo'

-----  
Date: Thu, 09 Sep 1999 15:42:56 -0400  
From: Pete Burbank <plburbank@kih.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [49859] Re: Better CW  
Message-ID: <3.0.32.19990909154254.0068b114@kih.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Karl,  
Tnx for your comments and I agree 100%. I have already spent time looking for new ops etc. CW is a beautiful language and I for one would like to see it preserved.  
I guess I was a bit grumpy about the "BACK" thing but it seems to me that if you are in a normal 2-way QSO, eventually it will come back to you so why burn up airtime saying that....DUH  
There are a lot of really fine fists on the bands and hope it stays that way.  
73 OT  
Pete NV4V

-----  
Date: Thu, 9 Sep 1999 14:46:48 -0500  
From: "Chuck Adams K7Q0" <adams@ticnet.com>  
To: qrp-1@lehigh.edu  
Subject: [49860] CW Abbreviations [long]  
Message-ID: <E11PAC0-0000GT-00@pop3.ticnet.com>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

Gang,

Some abbreviations may seem strange or not obvious but look at the time to send the string. CPY is the common abbreviation for copy, but on the air I'll use CPI. Gives the same info but in less time. I'm sure we all have some others.

Enjoy,

Most Common CW Abbreviations



de K7Q0

|      |                    |      |                 |      |                 |
|------|--------------------|------|-----------------|------|-----------------|
| AA   | all after          | GN   | gone            | RD   | read            |
| AB   | about              | GN   | good night      | RDY  | ready           |
| ABB  | abbreviate         | GND  | ground          | REF  | refer to        |
| ABBD | abbreviated        | GNI  | good night      | REF  | reference       |
| ABBG | abbreviating       | GP   | group           | RF   | radio frequency |
| ABBN | abbreviation       | GS   | guess           | RFI  | RF interference |
| ABD  | aboard             | GT   | great           | RFU  | refuse          |
| ABS  | absent             | GUD  | good            | RG   | regular         |
| ABT  | about              | GV   | give            | RHT  | right           |
| ABV  | above              | GVT  | government      | RIG  | station equipme |
| ACG  | according          | H    | has             | RJ   | reject          |
| ADR  | address            | HAP  | happy           | RKO  | record          |
| ADS  | address            | HB   | have been       | RMB  | remember        |
| AF   | after              | HI   | telegraph laugh | RPT  | repeat          |
| AFN  | afternoon          | HP   | hope            | RPY  | reply           |
| AGN  | again              | HPN  | happen          | RR   | railroad        |
| AK   | acknowledge        | HR   | here            | RT   | are the         |
| ALW  | always             | HV   | have            | RTTY | radio teletype  |
| AMT  | amount             | HVR  | however         | RU   | are you         |
| ANT  | antenna            | HVU  | have you        | RX   | receiver        |
| AO   | at once            | HW   | how             | RY   | railway         |
| APC  | appreciate         | IFN  | information     | SAT  | saturday        |
| AR   | answer             | IM   | immediately     | SD   | should          |
| AS   | standby, wait      | IN   | indication      | SDY  | sunday          |
| AVB  | available          | IMY  | immensely       | SED  | said            |
| AX   | ask                | IMT  | immediate       | SH   | such            |
| AY   | any                | IP   | improve         | SIG  | signature       |
| AYB  | anybody            | ITD  | intend          | SIG  | signal          |
| AYG  | anything           | IW   | it was          | SJ   | subject         |
| AX   | ask                | J    | by which        | SKED | schedule        |
| B    | be                 | JF   | justify         | SKJ  | schedule        |
| BAK  | back               | JGM  | judgement       | SM   | some            |
| BC   | because            | JN   | join            | SMG  | something       |
| BCI  | bdcst interference | JR   | junior          | SND  | send            |
| BCL  | bdcst listener     | JT   | just            | SNN  | RST of 599      |
| BCNU | be seeing you      | K    | out of the      | SPO  | suppose         |
| BD   | board              | KD   | kind            | SPZ  | surprise        |
| BF   | before             | KGNS | congratulations | STD  | standard        |
| B4   | before             | KMN  | communication   | STN  | station         |
| BFL  | beautiful          | KP   | keep            | STO  | store           |
| BFT  | breakfast          | KPPG | cooperating     | SUGN | suggestion      |
| BH   | both               | KU   | continue        | SUY  | saturday        |
| BK   | break              | KW   | know            | SVC  | service         |
| BKN  | broken             | LAF  | laugh           | SVL  | several         |
| BLDG | building           | LG   | long            | SYS  | system          |
| BN   | been               | LIC  | license         | T    | the             |

|      |                 |      |               |      |                 |
|------|-----------------|------|---------------|------|-----------------|
| BS   | best            | LID  | very poor op  | TBL  | trouble         |
| BTN  | between         | LK   | like          | TDY  | today           |
| BTR  | better          | LOV  | love          | TFC  | traffic         |
| BUN  | bulletin        | LTR  | letter        | TFK  | traffic         |
| BURO | QSL bureau      | LUK  | look          | TG   | thing           |
| BV   | believe         | LV   | leave         | TGR  | together        |
| BZ   | business        | LVG  | leaving       | THD  | thursday        |
| C    | see             | M    | more          | TI   | time            |
| C    | yes             | MAB  | maybe         | TKS  | thanks          |
| CA   | came            | MB   | maybe         | TM   | them            |
| CD   | could           | MD   | made          | TMP  | temperature     |
| CDRY | considerably    | MDA  | monday        | TMW  | tomorrow        |
| CDX  | condition       | MFG  | manufacturing | TN   | then            |
| CF   | chief           | MGR  | manager       | TND  | thousand        |
| CFM  | confirm         | MH   | much          | TNI  | tonight         |
| CFUD | confused        | MK   | make          | TNK  | think           |
| CHC  | chance          | MMY  | memory        | TNX  | thanks          |
| CHG  | charge          | MNG  | morning       | TR   | there           |
| CHN  | children        | MO   | month         | TS   | this            |
| CLD  | called          | MS   | most          | TSE  | these           |
| CLDY | cloudy          | MSJ  | message       | TT   | that            |
| CLR  | clear           | MSK  | mistake       | TU   | thank you       |
| CK   | check           | MST  | must          | TUY  | tuesday         |
| CL   | closing station | MSY  | mostly        | TV   | television      |
| CLD  | called          | MTG  | meeting       | TVI  | TV interference |
| CLG  | calling         | MTR  | matter        | TW   | tomorrow        |
| CM   | come            | MVG  | moving        | TWM  | tomorrow mornin |
| CNCD | concerned       | MVM  | movement      | TWV  | tmw even        |
| CNDS | conditions      | N    | no, not       | TX   | this is         |
| CTD  | connected       | NA   | name          | TX   | transmitter     |
| CPI  | copy            | NBR  | neighbor      | TXT  | text            |
| CPT  | complete        | ND   | need          | TY   | they            |
| CQ   | calling any stn | NI   | night         | U    | you             |
| CQY  | correctly       | NIL  | nothing       | UCN  | uncertain       |
| CTD  | connected       | NM   | no more       | UF   | unfortunate     |
| CUD  | could           | NR   | near          | UFBY | unfavorably     |
| CUL  | see you later   | NTG  | nothing       | UK   | understand      |
| CW   | continuous wave | NUM  | number        | UKN  | unknown         |
| CW   | morse code      | NUMD | numbered      | ULY  | usually         |
| CY   | copy            | NUP  | newspaper     | UN   | until           |
| D    | in the          | NV   | never         | UPN  | upon            |
| DA   | day             | NW   | now           | UR   | your            |
| DAU  | daughter        | NX   | next          | V    | of which        |
| DD   | did             | O    | of            | VB   | valuable        |
| DDNT | did not         | OB   | old boy       | VCY  | vicinity        |
| DE   | from            | OC   | old chap      | VET  | veteran         |
| DEG  | degree          | OFN  | often         | VFO  | var. freq osc.  |
| DFC  | difference      | OFS  | office        | VKN  | vacation        |

|      |                |      |                 |      |                 |
|------|----------------|------|-----------------|------|-----------------|
| DFT  | different      | OFY  | officially      | VOL  | volume          |
| DG   | doing          | OFC  | officer         | VSF  | visible         |
| DLD  | delivered      | OG   | organize        | VSR  | visitor         |
| DNR  | dinner         | OJ   | object          | VST  | visit           |
| DOLS | dollars        | OM   | old man         | VU   | view            |
| DR   | dear           | OP   | opportunity     | VY   | very            |
| DT   | dont           | OPR  | operator        | VYG  | voyage          |
| DX   | distance       | OT   | old timer       | W    | with            |
| DUP  | duplicate      | OTH  | other           | WA   | word after      |
| EA   | each           | OV   | over            | WB   | will be         |
| EH   | either         | OWG  | owing           | WB   | word before     |
| EJO  | enjoy          | OWZ  | otherwise       | WD   | word            |
| ENH  | enough         | P    | per             | WDS  | words           |
| EQM  | equipment      | PAP  | paper           | WDA  | wednesday       |
| ES   | and            | PB   | probable        | WD   | would           |
| ESPY | especially     | PBL  | preamble        | WDF  | wonderful       |
| EU   | Europe         | PBM  | problem         | WEA  | weather         |
| EV   | ever           | PBY  | probably        | WF   | wife            |
| EXA  | extra          | PC   | percent         | WG   | wrong           |
| EXK  | expect         | PD   | paid            | WGT  | weight          |
| EXQ  | excuse         | PFD  | preferred       | WH   | which           |
| EYB  | everybody      | PFT  | perfect         | WI   | will            |
| EYG  | everything     | PKJ  | package         | WK   | week            |
| F    | of the         | PLS  | please          | WKD  | worked          |
| FB   | fine business  | PLSR | pleasure        | WKG  | working         |
| FER  | for            | POX  | police          | WL   | well            |
| FM   | from           | PSE  | please          | WLD  | world           |
| FO   | for            | PSK  | prospect        | WN   | when            |
| FO   | fast operator  | PWR  | power           | WO   | who             |
| FQ   | frequent       | PX   | press           | WRD  | word            |
| FRI  | friday         | Q    | on the          | WT   | what            |
| FRV  | forever        | QA   | qualify         | WTV  | whatever        |
| FRW  | forward        | QAY  | quality         | WUD  | would           |
| FS   | first          | QK   | quick           | WX   | weather         |
| FU   | few            | QKY  | quickly         | X    | in which        |
| FW   | follow         | QRO  | high power      | XCVR | transceiver     |
| G    | from the       | QRP  | low power       | XJ   | explain         |
| GA   | good afternoon | QRS  | transmit slower | XMTR | transmitter     |
| GA   | gave           | QSN  | question        | XTL  | crystal         |
| GA   | go ahead       | QT   | quite           | XYL  | wife            |
| GB   | good bye       | QTH  | location        | Y    | year            |
| GBA  | gv better adr  | QTN  | quotation       | YA   | yesterday       |
| GD   | good           | QTY  | quantity        | YR   | year            |
| GE   | good evening   | R    | are, received   | YL   | young lady      |
| GG   | going          | R    | roger           | Z    | from which      |
| GL   | good luck      | RCD  | received        | 73   | best regards    |
| GLS  | girls          | RCV  | receive         | 88   | love and kisses |
| GM   | good morning   | RCVR | receiver        |      |                 |

State Abbreviations (I include this 'cuz there are still a lot of  
hams that don't have a clue.... :-) )

AL AK AZ AR CA CO CT DE FL GA HI ID IL IN IA KS KT LA ME MD MA MI MN NS MO  
MT NB NV NH NJ NM NY NC ND OH OK OR PA RI SC SD TN TX UT VT VA WA WV WI WY

FYI

Chuck Adams K7Q0 K7Q0@hotmail.com <http://www.qsl.net/k7qo/>

-----  
Date: Thu, 9 Sep 1999 13:03:53 -0700  
From: "Barry L. Geipel - AD6HR" <bgeipel@primenet.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [49861] Re: Better CW  
Message-ID: <009001befafe\$711d85f0\$5dc9bbc0@cwil.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

When I am in a good ragchew (the only kind!) I usually just send  
<KN> to turn it over

so:

kf6rdi de ad6hr sri om pse my rst agn ? <kn>  
rst 559 559 hw? <kn>  
r r qsl es tn timer rpt <bt> ur ohr snds gud <bt> my rig knwd ts520 <kn>  
r i also hve a 520 but i keep blowing fuses hi hi ad6hr de kf6rdi <kn>  
r r u r driving the bias 2 much <bt> dont go over 2TT ma <kn>

etc

Sometimes I send "so hw cpy?" and most of the time  
I also send the callsigns unless it is someone who I chat with  
often.

Oh, I also tend to be a bit of a chameleon. That is, I match the  
style that the other party is using.

-73-

Barry - AD6HR

-----  
Date: Thu, 09 Sep 1999 15:55:39 -0400  
From: Scott Howell <whowell@hq.nasa.gov>  
To: REDSBOY@aol.com, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [49862] Re: Better CW  
Message-ID: <3.0.5.32.19990909155539.0085d670@mail.hq.nasa.gov>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

I also challenge all of you to do this. I make this a regular habit cause I know its the only way. If I can copy at least a word or two I work them. Yes, you also should cause its our responsibility to the hobby and cw. Yes cause although I'm not the best, there are you who are and you really should consider helping those starting out no matter how much that copy might hurt. So, do it for the hobby and yourself.

73 de Scott/n3byy

-----  
Date: Thu, 9 Sep 1999 13:04:49 -0700 (MST)  
From: Chris Trask <ctrask@primenet.com>  
To: Chuck Adams K7Q0 <adams@ticnet.com>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [49863] Re: CW Abbreviations [long]  
Message-ID: <Pine.BSI.3.96.990909130403.14929A-100000@usr08.primenet.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Chuck,

Do you have a similar list for the numric codes (73, 86, etc)?

Chris

On Thu, 9 Sep 1999, Chuck Adams K7Q0 wrote:

>  
>  
>  
> Gang,  
>  
> Some abbreviations may seem strange or not obvious but look  
> at the time to send the string. CPY is the common abbreviation  
> for copy, but on the air I'll use CPI. Gives the same info  
> but in less time. I'm sure we all have some others.

>

```

      /-----\
     /  What's all this  \
    / extinct stuff, anyhow? \
   /-----\
  _||/
oo\
(--) \
     \  .  .  .
      \  '  '  '
       \  "  "  "
        \  (  )  \
         \  -| )__| :. \
          \  | | | | \  '
           \  | | | | \  '
            \  | | | | \  '
             \  | | | | \  '
              \  | | | | \  '
               \  | | | | \  '
                \  | | | | \  '
                 \  | | | | \  '
                  \  | | | | \  '
                   \  | | | | \  '
                    \  | | | | \  '
                     \  | | | | \  '
                      \  | | | | \  '
                       \  | | | | \  '
                        \  | | | | \  '
                         \  | | | | \  '
                          \  | | | | \  '
                           \  | | | | \  '
                            \  | | | | \  '
                             \  | | | | \  '
                              \  | | | | \  '
                               \  | | | | \  '
                                \  | | | | \  '
                                 \  | | | | \  '
                                  \  | | | | \  '
                                   \  | | | | \  '
                                    \  | | | | \  '
                                     \  | | | | \  '
                                      \  | | | | \  '
                                       \  | | | | \  '
                                        \  | | | | \  '
                                         \  | | | | \  '
                                          \  | | | | \  '
                                           \  | | | | \  '
                                            \  | | | | \  '
                                             \  | | | | \  '
                                              \  | | | | \  '
                                               \  | | | | \  '
                                                \  | | | | \  '
                                                 \  | | | | \  '
                                                  \  | | | | \  '
                                                   \  | | | | \  '
                                                    \  | | | | \  '
                                                     \  | | | | \  '
                                                      \  | | | | \  '
                                                       \  | | | | \  '
                                                        \  | | | | \  '
                                                         \  | | | | \  '
                                                          \  | | | | \  '
                                                           \  | | | | \  '
                                                            \  | | | | \  '
                                                             \  | | | | \  '
                                                              \  | | | | \  '
                                                               \  | | | | \  '
                                                                \  | | | | \  '
                                                                 \  | | | | \  '
                                                                  \  | | | | \  '
                                                                   \  | | | | \  '
                                                                    \  | | | | \  '
                                                                     \  | | | | \  '
                                                                      \  | | | | \  '
                                                                       \  | | | | \  '
                                                                        \  | | | | \  '
                                                                         \  | | | | \  '
                                                                          \  | | | | \  '
                                                                           \  | | | | \  '
                                                                            \  | | | | \  '
                                                                             \  | | | | \  '
                                                                              \  | | | | \  '
                                                                               \  | | | | \  '
                                                                                \  | | | | \  '
                                                                                 \  | | | | \  '
                                                                                  \  | | | | \  '
                                                                                   \  | | | | \  '
                                                                                    \  | | | | \  '
                                                                                     \  | | | | \  '
                                                                                      \  | | | | \  '
                                                                                       \  | | | | \  '
                                                                                        \  | | | | \  '
                                                                                         \  | | | | \  '
                                                                                          \  | | | | \  '
                                                                                           \  | | | | \  '
                                                                                            \  | | | | \  '
                                                                                             \  | | | | \  '
                                                                                              \  | | | | \  '
                                                                                               \  | | | | \  '
                                                                                                \  | | | | \  '
                                                                                                 \  | | | | \  '
                                                                                                  \  | | | | \  '
                                                                                                   \  | | | | \  '
                                                                                                    \  | | | | \  '
                                                                                                     \  | | | | \  '
                                                                                                      \  | | | | \  '
                                                                                                       \  | | | | \  '
                                                                                                        \  | | | | \  '
                                                                                                         \  | | | | \  '
                                                                                                          \  | | | | \  '
                                                                                                           \  | | | | \  '
                                                                                                            \  | | | | \  '
                                                                                                             \  | | | | \  '
                                                                                                              \  | | | | \  '
                                                                                                               \  | | | | \  '
                                                                                                                \  | | | | \  '
                                                                                                                 \  | | | | \  '
                                                                                                                  \  | | | | \  '
                                                                                                                   \  | | | | \  '
                                                                                                                    \  | | | | \  '
                                                                                                                     \  | | | | \  '
                                                                                                                      \  | | | | \  '
                                                                                                                       \  | | | | \  '
                                                                                                                        \  | | | | \  '
                                                                                                                         \  | | | | \  '
                                                                                                                          \  | | | | \  '
                                                                                                                           \  | | | | \  '
                                                                                                                            \  | | | | \  '
                                                                                                                             \  | | | | \  '
                                                                                      c__ ; c__ ; ' -.. ' > .__

```

Circuit Design for the  
RF Impaired

Chris Trask / N7ZWY  
Principal Engineer  
ATG Design Services  
P.O. Box 25240  
Tempe, Arizona 85285-5240

Technical Editor,  
QRP Quarterly  
QRP ARCI 9464

Email: [ctrask@primenet.com](mailto:ctrask@primenet.com)  
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

-----  
Date: Thu, 9 Sep 1999 16:17:17 EDT  
From: GElam30092@aol.com  
To: qrp-l@lehigh.edu  
Subject: [49864] Re: Better CW  
Message-ID: <cd38211.25096fcd@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

In a message dated 9/9/1999 11:35:59 AM US Mountain Standard Time,  
REDSBOY@aol.com writes:

<< AT LEAST ONCE A WEEK, we will slow down that keyer or bug and go up  
above 7030 kc and find someone we suspect is less experienced with the  
brass? >>

Or maybe between 7.100-7.150 MHz where us real and sometimes slow rookies  
hang out!

Cheers,  
Gerry  
PHX AZ

-----  
Date: Thu, 9 Sep 1999 16:18:34 EDT  
From: REDSBOY@aol.com  
To: qrp-1@lehigh.edu  
Subject: [49865] Re: CW Abbreviations (Long)  
Message-ID: <5fe4f4fd.2509701a@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

WOW !

I hope we all appreciate what Chuck has done for us with his list of abbreviations. That was most kind and considerate.

My hat's off to you, Chuck. (Pardon the glare from my bald head.)

I'll look for you on 40.

73,

Karl - W4UTI

-----  
Date: Thu, 9 Sep 1999 15:19:10 -0500 (EST)  
From: igeq100@iupui.edu  
To: Scott Howell <whowell@hq.nasa.gov>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [49866] Re: Better CW  
Message-ID: <Pine.HPP.3.96.990909151706.24942C-1000000@ruby.iupui.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Scott -

I do this, too. Behind a hard-to-copy fist you can meet some very interesting people, and it's good to help them along. You get a good fist by hearing good fists.

73,

Richard Meiss, WB9LPU

On Thu, 9 Sep 1999, Scott Howell wrote:

> I also challenge all of you to do this. I make this a regular habit cause I  
> know its the only way. If I can copy at least a word or two I work them.  
> Yes, you also should cause its our responsibility to the hobby and cw. Yes  
> cause although I'm not the best, there are you who are and you really should  
> consider helping those starting out no matter how much that copy might hurt.  
> So, do it for the hobby and yourself.  
>  
> 73 de Scott/n3byy  
>

-----  
Date: Thu, 9 Sep 1999 15:15:30 -0500  
From: "Randy Jouett" <rules@bellsouth.net>  
To: <wj5o@juno.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [49867] Re: Radio Shack 10M Rig & Replies  
Message-ID: <023401befb00\$52c64590\$6b66d6d1@spock>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Bill/Gang,

I got a LOT of private e-mail responses to my remark  
on this subject, so I've decided to use this reply to  
answer all of them in one shot. Here goes...

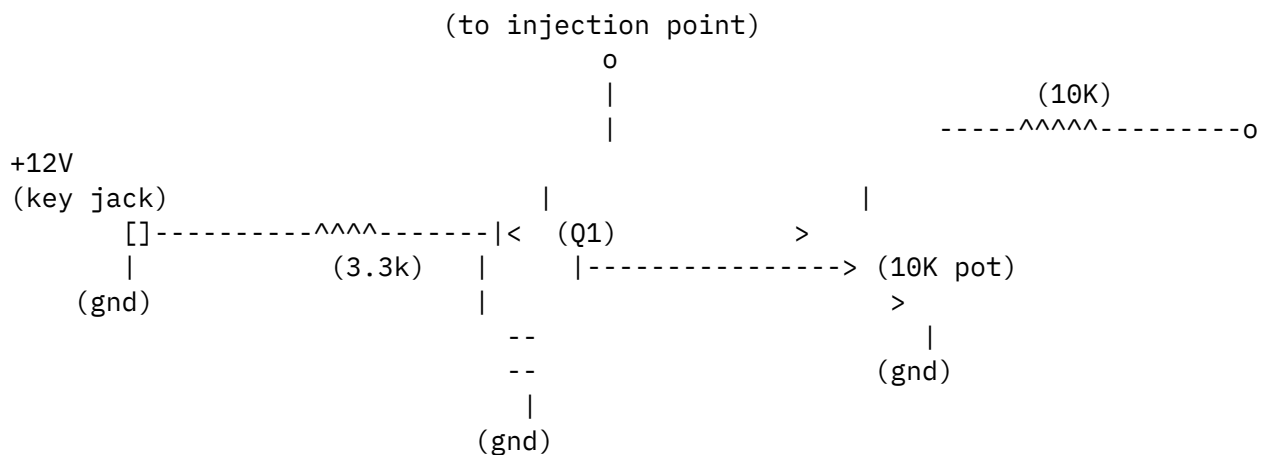
>What, no CW? No big thing. Insert a mic connector  
>to "key" the PTT circuit on AM. Volia! True CW.

That's great, Bill! Here's another way to do it that my  
Elmer described to me when I asked about adding  
CW to a SSB CB rig that I'm converting to 10 Mtrs:

"Now about CW. Well, as far as the receive section  
is concerned, 'SSB is CW with a Voice.' In the  
transmitter, all you have to do is inject a small but  
variable DC voltage into the balanced modulator. I  
say variable so that you can set the CW carrier  
level. Note that the speech amplifier drives the  
balanced modulator through a 1mfd capacitor  
going to L602. [He's talking about my specific rig



here, btw, but the over-all info should hold up with just about any rig.] Inject the DC voltage between this cap and coil, via an RF choke or, say, a 100 ohm resistor. If the DC is keyed, you have CW! But you ask ' Why not use the balancing pot to unbalance the balanced modulator [He's refering to a schematic that I'll explain shortly], and key the following stage? You can do that, of course, but it means re-balancing the balanced modulator every time you go back to SSB -- a pain in the butt! The DC injection is far better, as you can go right back to SSB instantly. Here's how to do it."



[Q1 is a 2N3906, PNP transistor.]

"Set the carrier level so that Tx power output on CW is about 65% to 75% of the SSB PEP output. That's all there is to it! There should be problem "if" you keep the collector lead short. Go easy at first with the 10K carrier level pot, bringing it up slowly, a little at a time. Once set, it can be forgotten. And NO, the speech amp audio can't go back to the PNP keying transistor in SSB, because, unless you are key down, that PNP is shut off!! Cool, eh?"

I would have to say "way cool, dude!" :^)

Another QRPer here on the list had this to say:

>Does "Free Band" ring a bell? How many jumpers

>or diodes to cut to add the 40 CB channels to the  
>coverage?

Probably not all that many! OTOH, since you and I are going to be taking advantage of the low price the rig has because of this, why should we complain? No amount of complaining is going to change the design at this stage of the game if it doesn't have CW, although it might make a difference with a future rig if we let our feelings on this subject be known to RS. Maybe we should post messages to their web site about this?

>RS is just tired of losing that very large and \$\$\$  
>market to the truck stops.

I'd have to agree with you here! Fortunately, we'll be able to take advantage of this situation, though, and add CW if we are forced into the situation. I agree with the over-all consensus that not having CW in a ham rig would be stupid, and it would also be a sign that the rig had free-banding in mind when it was designed. They would have to give the free banders some kind of hint, you know :^). You would think that RS would be smarter than that, OTOH, especially with Hollingsworth at the helm of FCC enforcement, but it is probably worth the "chance" they're taking, because they can rationalize the situation by saying that "they would have to cut all kinds of stuff, add a component here and there, and there's no way that we can keep all of the users from changing the rig to free band without it costing us a small fortune."

Another good thing about the rig being able to free band is that we'll have a semi-decent rig to pick up at ham fests and on the net, especially when they start blowing them up and selling them for \$15.00 :^). This one may be stretching it a bit, but, for some reason, I seriously doubt it :^).

I guess we'll just have to wait and see what the truth is when the rig comes out. A person here on the list posted the specs that he obtained for RS, and the specs said that the rig had CW. I like to believe that this is the case and be optimistic. The truth will set us free, though. :^).

Another thing that we should consider is that the rig has repeater offsets and FM. This will be great, especially in its price range, and maybe we'll see a couple of new FM repeaters pop up. If this happens, we'll also have a cheaper path for "talking around town" when the bands are dead.

As far as SSB in the rig goes, I don't think that you could build a ham rig like this without it, and it will give the novices a cheap way to get on the air. What I'm interested in here is the quality of the SSB reception and transmission.

Anywho, over all, I think that we should all tip our hats to RS, buy em' a beer, and thank them for being in the ham market. If the rig doesn't have CW, then maybe we can buy them a LOT of beer at Dayton, get em' drunk, and set them up with some ugly fat chicks or something :^). Just teasing, RS folks! :^)

Thanks for you input, guys!

72/73,

-----

Randy Jouett, AB5NI

-----

Date: Thu, 9 Sep 1999 11:33:52 -0500  
From: Mark R Milburn <kq0i@juno.com>  
To: qrp-l@lehigh.edu  
Message-ID: <19990909.151747.-212003.1.KQ0I@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

> Within a day of posting the message, stating the survey, I received  
> many email messages which blatantly abused and insulted me.

Instead of everyone getting on here and saying how sorry we are, and all that ... let's realize there is only one solution. Make copies of the "out-of-bounds" replies you get and send them to Chuck Adams who watches over us like the delinquent children we are. He will get to the bottom of it and BANISH those that make this list an unhappy experience for some who want to do good.

It's a choice ... complain and get all upset ... or fix the problem.

72/73 Mark KQ0I  
Des Moines, Iowa

-----  
Get the Internet just the way you want it.  
Free software, free e-mail, and free Internet access for a month!  
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

-----  
Date: Thu, 9 Sep 1999 13:36:43 -0700  
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)  
To: <qrp-1@lehigh.edu>  
Subject: [49869] Missing Post  
Message-ID: <01befb03\$0769cb00\$630a0d0a@doug.dpol.k12.ca.us>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Guys, I apologize for the missing posting of #5 in my series. Here it is. By now we have a VE3DNL marker generator, a TiCK keyer, a SWL+ CW transceiver and an Emtech ZM-2 tuner. What we need next is an antenna or as the Arizona ScQRPions say, an antler. Antennas are like opinions, everyone has one. This recommendation will cover two antennas, one for the home station and for taking into the field.

First the home station. We want something here that will give us all band coverage, cheap, and easy to put up. We also want the lowest loss we can have in the feedline. My choice here is the ladder line fed dipole that is 135 feet long and tuned with a tuner (now you know why we build the ZM-2). The ZM-2 will allow you to have a low SWR on all bands. This antenna is built using #18 or bigger copper wire. Take a 135' piece of wire and cut it in half. Then, you need a center insulator. My recommendation is that you buy the "Ladder Grabber" for \$7.95 from Emtech. This neat little center insulator is made to hold ladder line. You attach the two wires to the center insulator, then the ladder line, and everything is supported by the center insulator. You then pull it up and get it as high as you can. L.B. Cebik, W4RNL who is a QRP Hall of Famer, has one of the best antenna web sites that I know of. He discusses this very antenna and has lots of antenna charts that show the patterns of the antenna on various bands. Here is the url for that article  
<http://www.cebik.com/gup5.html>  
I strongly urge you to visit L.B.'s site.

When you build this antenna, you have a good general purpose antenna that will work on all bands, is easy to build, and won't cost an arm and a leg.

What do you need?

135' of #18 or bigger wire. Radio Shack used to sell some copper stranded wire that was #16 that is perfect for this application. But any wire will do, and it doesn't matter if it is bare, coated, or enameled.

Lengths of rope, string, wire, something to tie off the ends.

End insulators. Anything works here. Egg insulators, PVC pipe that has been drilled, 1" PVC couplings (schedule 40) etc. Or, if you use rope, make a loop in the antenna wire and don't use an insulator.

Emtech "Ladder Grabber"

Length of ladder line to reach your tuner. You must use a balanced line tuner here, and the Emtech ZM-2 has a balanced line input. I buy my ladder line from the Wireman. He advertises in QST and has a website. Here is the url for the ladderline.

<http://www.thewireman.com/balancep.html#553>

I recommend that you buy the 553 at \$.16 a foot or the 562 at \$.18 per foot. They are lighter in weight and easier to handle. Be sure to buy plenty as you don't want to splice it.

Another alternative is to buy some 300 ohm tv twin lead. It works fine, but is not nearly as durable as the ladderline. The antenna will cost you about \$30 depending on your location (how high, etc, length of feedline).

Now for the second alternative. What if you have a small lot? Can't put up a 135' wire? Joe Everhart, N2CX is the guy on the white horse galloping to the rescue. He sells the best antenna kit out there for an antenna if you don't want to build the above antenna. I'm talking bang for the buck here guys. This is value. I'll let Joe describe the kit. The kit comes with high quality parts, and the manual is excellent, especially if you have never put up an antenna before. Are you reading this new guys on the block? Get this kit if you are unsure of how to build a good dipole. And yes, your ZM-2 will tune this thing too!

My advice is to build both of these, the 135' Ladderline Dipole for home, and the Gusher for the field or portable use. I use mine a lot, especially when I go camping. The nice thing about the gusher kit is that Joe provides everything you need, and the price is right.

Info below provided by Joe Everhart, N2CX

Gusher-2L Multi-band Portable QRP Antenna

- 1 pound dipole ideal for portable use as an inverted vee
- Can be configured for multiband use
- Complete with all parts - you cut to length
- 14 page configuration/application manual

Gusher Classic

- 1 pound dipole ideal for portable use as an inverted vee
- You cut it for any single band from 40-10 meters
- Complete with all parts - you cut to length
- 10 page configuration/application manual

Gusher 20-20 Economy 20 meter QRP Dipole

- 1 pound (-) dipole ideal for portable use as an inverted vee
- Similar to the Classic pre-cut for 20 meters
- 5 page info pamphlet

All antennas are supplied with complete cutting and application info.

Prices:

Gusher 20-20 \$19.00 -special price- postpaid (US)

2 for only \$35.00 postpaid

Gusher-2L \$25.00 plus \$3.00 postage

Gusher-Classic \$22.00 plus \$3.00 postage

Postage is for US addresses. Contact me for foreign postage

Antennas are usually in stock and will be mailed promptly to US

addresses. Contact me for foreign postage info.

For additional info contact:

n2cx@voicenet.com

or write to

Joe Everhart, N2CX

214 New Jersey Rd

Brooklawn, NJ 08030

The Gusher antennas are simple dipoles with small diameter hookup wire for the elements, a sealed center insulator and an RG-174 feedline. They are intended for use as portable inverted vees. A similar antenna was first used by K6MDJ and called the BIC Flamethrower since its center insulator and end insulators were made from a sawed-apart disposable lighter. The PVC Gushers use plastic pipe parts - a slip cap for the center insulator (sealed for weather-proofing) and short sections of PVC pipe for end insulators. 35 foot coaxial feedlines are permanently attached for strength and are terminated at the far end by a BNC connector. Total weight for either antenna is approximately one pound and they can be carried in a plastic zipper bag for portable use.

There are three Gusher models, the Gusher Classic, Gusher 2L and the Gusher 20-20. The Classic model has wire elements permanently attached and can be cut for a single HF band between 40 and 10 meters. The Gusher-2L is more sophisticated with protruding studs and wing nuts on the center insulator on to which removable wire elements can be attached.

Multiband operation can be achieved by replacing wire elements or by constructing either a "leapfrog" or "fan" dipole. All components are included with the Gusher 2L for several multiband configurations. The Gusher 20-20 is an economy version of the Classic pre-cut for 20 meter (only) use in recognition of the recent availability of a very popular 20 meter QRP rig.

Detailed illustrated manuals are included with all three antennas with

complete construction information. Single band configurations of either antenna can be constructed and on the air in less than 15 minutes. As mentioned above the 20-20 is supplied "ready to roll" all you need to do is hoist it up in the the air, hook up your rig and start operating!

\*\*\*\*\*

\*\*\*\*\*

Gusher 2-L

The 2-L is the premium Gusher antenna. As can be seen in the accompanying photograph (gush.jpg), it includes the following:

- a sealed center insulator with attached feedline and attachment screweye
- a coaxial feedline terminated in a crimp-type BNC connector
- two 50 foot dipole elements
- a quantity of insulators, ring lugs and alligator clips for constructing several different antenna configurations
- a 13 page detailed instruction manual

The 2-L is intended for use as either a single or multi-band dipole antenna for use between 40 and 10 meters. The wire elements are not permanently connected. It uses ring lugs that connect to the center insulator via threaded hardware and wing nuts. Extra wire and hardware are supplied along with directions in the manual to make both single-and multiband configurations. Since the wires are removable, separate elements can be cut for several bands and either swapped out for band changing or paralleled and fanned out for no-switch multibanding. Alternatively a segmented multi-band configuration can be made and bandswitching done using the alligator clips to select which segments are used. The 13-page instruction manual gives complete information on constructing single and multi-band setups and gives advice on how to get optimum results with the Gusher 2-L.

Tomorrow we continue with #6, the KI6DS recommendation for a full blown, single band QRP CW transceiver. Hint, I have a major and a minor recommendation, depending on how you are going to use the rig. Thanks also for all the kind words and encouragement on this series. Please remember that it is just my opinion and I am not implying that my opinion is any better than anyone else's, but I do have one!! Grin. 72, Doug, KI6DS

-----  
Date: Thu, 9 Sep 1999 15:46:34 +0000  
From: "Steven Weber" <kd1jv@moose.ncia.net>  
To: qrp-l@lehigh.edu  
Subject: [49870] Audio derived AGC  
Message-ID: <199909092028.QAA08149@moose.ncia.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

Finally, I think I've come up with an audio derived AGC circuit that actually sounds good. I'll know better later tonight when I can find

some 20 over S9 stations sending fast CW, which is the type of signal which typically drives audio derived AGC nuts.

I found the main reason audio derived AGC sounds bad is because it's too slow to respond. By the time it decides to turn down the gain, you already had a loud burst of audio coming out of the speaker, and once it does decide to turn down the gain, it either overshoots and turns it down too much, so you end up with loud clicking noises (too much gain) or not enough to tell it's doing anything.

For the AGC to work well, it has to respond to the very first audio wave that comes through and reduce the gain as the signal continues to increase. It has to accurately track the wave form. When the input signal stops increasing, it then has to hold that AGC voltage. If the gain is being controlled back at the IF, there should be as little delay as possible between the conversion to audio and the audio signal detector. Since audio band pass filters have a significant delay, the audio level should be detected before any audio band pass filters. Since we don't know if the first wave to come through will be positive or negative going, we also need to use a full wave rectifier and not a simple single diode half wave rectifier.

So, the circuit I came up with starts with a full wave rectifier. Basically, it's two unity gain inverting amplifiers in series, with a diode off of each output, going to a common load resistor. This full wave rectified signal then goes to an error amplifier. When the input exceeds the set point set on the inverting input, the output starts to go up. The more gain the error amplifier has, the more constant it will hold the audio level, but too much gain will result in overshoot and oscillations. In my case, a gain of 10 seems to be all that's needed.

Finally, the output of the error amplifier goes to a peak detector, a small 0.22 ufd holding cap is used so it will respond quick, with a 2.2 meg resistor across it to control the hang time. This peak detected voltage is buffered by the last section of the quad op amp to feed back to the MC1350 IF amp.

This circuit is "backwards" from every other AGC circuit I've seen or tried. Usually, the audio level peak detector comes first, then the error amp gain. It took awhile to realise it should be done the other way around!

72,

Steve, KD1JV in the white Mountains of New Hampshire  
"melt solder"



-----  
Date: 9 Sep 1999 15:43:55 -0500  
From: "rohre" <rohre@arlut.utexas.edu>  
To: qrp-l@lehigh.edu, "tentec list" <tentec@contesting.com>  
Subject: [49871] comment on Ten Tec Power Meter  
Message-ID: <n1275230617.32770@msmailgw1.arlut.utexas.edu>

Had several interested in the Ten Tec power meter kit reuse as a QRP one. A little summary of the kit might be of general interest.

The stock kit has two frequency pickups (HF toroid and VHF strip line), and two power scales on each pickup, 20 watts FS and 200 watts FS.

My paper in the "QRP Amateur Radio Club International Quarterly" for Fall 1996 describes the kit, and its construction. It also shows that you can make the QRO kit, into QRP with a Full scale range of 20 watts in place of 200, or 2 watts in place of 20. It is all done by having known sources of low power, and using the four cal pots, (two for HF, and two for VHF). First verify the kit is working as built by following TT set up to 20 W and 200 W. Then, with known sources, or a known good Bird meter set up a 2 watt HF signal on Bird, and then sub the TT meter in place of the Bird, keeping coax the same, etc. Readjust the 20 watt pot (if on 20 watt scale, and with a 2 watt source, HF), to 2 watts. Do the same for any other range you want to modify. You must have a known 50 ohm dummy load, of course, and either a Bird or source you trust to be a certain power, or another known good power meter borrowed for the test. Alternately, the handbooks show how to make a diode RF voltage probe for HF, and measure power by measuring RF voltage across 50 ohm load. We are not doing laboratory accuracy, but a perfectly adequate measure for the wide variety of antennas, and efficiencies that typical hams use.

Ten Tec provides an excellent manual for assembling each of their kits. If you build exactly to their instructions, you should have very good and identical results to commercial power meters built into rigs, or better quality Antenna matching units. There is one toroid made up of two cores glued together for wider HF band coverage. The primary is the coax line, and turns of a secondary provide the pickup of HF signal.

For VHF, you have the pickup lines etched right on the board, making this an easier assembly. This is a straightforward kit, if you have a couple of tip sizes on the soldering iron, and is a nice weekend project, with time left over.

Hope that is helpful,  
Stuart K5KVH  
-----

Date: Thu, 9 Sep 1999 16:20:24 -0500 (CDT)  
From: ac5ez@webtv.net (Larry B)  
To: qrp-1@lehigh.EDU  
Subject: [49872] Cw whine & complain  
Message-ID: <1655-37D82498-5982@postoffice-112.iap.bryant.webtv.net>  
Content-Disposition: Inline  
Content-Type: Text/Plain; Charset=US-ASCII  
Content-Transfer-Encoding: 7Bit  
MIME-Version: 1.0 (WebTV)

I feel guilty about not answering many cq's that are running under 13 wpm but its vexing to copy slow slow cw. Guess I am too impatient in my ole age. (flame suit on)

-----  
Date: Thu, 9 Sep 1999 14:31:26 -0700  
From: "Kory Hamzeh" <kory@avatar.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [49873] RE: Cw whine & complain  
Message-ID: <002e01befb0a\$ac0b0280\$14ce21c7@tomcat.avatar.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

> I feel guilty about not answering many cq's that are running under 13  
> wpm but its vexing to copy slow slow cw. Guess I am too impatient in my  
> ole age. (flame suit on)

I'm pretty dyslexic, so CW has been a battle for me since day one. On a good day, I may be able to copy 18 wpm, but usually I'm in the 11-13 wpm range. What really burns my butt is when I send out a CQ at 13 WPM and some op answers my CQ at 25 WPM. Huh??

'nuff whining.

Just worked EA3KU on 15 meters. Could not get him to slow down!

73,  
Kory  
AC6RN

-----  
Date: Thu, 9 Sep 1999 17:37:04 EDT  
From: K2UD@aol.com  
To: SFIKE@twa.com  
Cc: qrp-1@lehigh.edu  
Subject: [49874] Re: QRP vote  
Message-ID: <f21d59e9.25098280@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

If you only have one radio, then yours is the best. If someone else only has one, and it's different from yours, then he has the best.

I believe it's a bit relative, and very personalized. I think the best QRP radio is the one that I am using at the particular moment in time.

72

Howard Kraus, K2UD  
(I actually have lots of best QRP rigs!)

-----  
Date: Thu, 09 Sep 1999 16:39:22 EDT  
From: w4pj@w4bkx.ampr.org  
To: qrp-1@lehigh.edu  
Subject: [49875] Prosign BT  
Message-ID: <90749@w4bkx.ampr.org>

I believe the prosign BT (no space between the B and T) to be a punctuation mark "-". It is sometimes called a hyphen.

de (Scott) W4PJ  
P.S. My very old A.R.R.L. Handbook says:  
...Doubledash:dahdidididah  
My 1985 shows both.

-----  
Date: Thu, 09 Sep 1999 17:58:01 -0400  
From: "The One and Only!" <mitch96@pobox.com>  
To: w1rfi@arrl.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [49876] Re: USA Visit  
Message-ID: <37D82D69.C1872760@pobox.com>  
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Now THAT'S customer service!! Way to go Ed!!!

> Hi, Jack,  
If you can visit ARRL HQ during the week, you can  
> get a nice tour and get to operate W1AW (/QRP, if you wish).  
>  
> If you can only make it on the weekend, let me know; I can drive to work  
> and open the place up and let you see some of the highlights  
> 73,  
> Ed Hare, W1RFI  
> ARRL Lab

--

72.5, mitch ww4ml

-----

Date: Thu, 9 Sep 1999 15:56:57 -0600  
From: "Roy" <ab7ce@email.msn.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [49877] prosigns  
Message-ID: <003601befb0e\$3d4b1fc0\$a4c7fad0@pavilion>

I have noticed some folks using a question mark for a comma. Is this a common thing or has there been some confusion somewhere? Roy AB7CE

-----

Date: Thu, 9 Sep 1999 14:59:13 -0700 (PDT)  
From: Monte Stark <ku7y@dri.edu>  
To: Low Power Amateur Radio <qrp-l@Lehigh.EDU>  
Subject: [49878] Re: An answer, a thankyou, an apology and a backlash...  
Message-ID: <Pine.GS0.4.10.9909091454230.16959-100000@rotor.dri.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 9 Sep 1999, Frank Ivan - K0FEI wrote:

> Sigh, I think the problem is that the members of the ham community are  
> getting older and more set in their ways. The average ham is 53 years old.

Hmmmmmm, this is something that I've been hearing since I became a ham in 1953. The average age then was something like 50ish too!

Now if we had only become one year older (the average age that is) during all those years the average age must now be something close to 100, not 50 something.... :-)

(I have NEVER heard, seen or read where the average age dropped!)

And I do take offense at being thrown into a "box" and labled as a big negative force to (I'm guessing a bit here) this list and maybe even amateur radio in general.

I would much prefer to be judged on merit and not on how many birthdays I've had.

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....  
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

-----  
Date: Thu, 9 Sep 1999 15:12:52 -0700  
From: "Kory Hamzeh" <kory@avatar.com>  
To: <qrp-l@lehigh.edu>  
Subject: [49879] RE: I have a ZM-1 kit to give away.  
Message-ID: <003501befb10\$75b50a40\$14ce21c7@tomcat.avatar.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

All of the tuners have been given away. If you wrote to me and have not heard from me, then your name did not come up.

73,

Kory  
AC6RN

-----  
Date: Thu, 09 Sep 1999 17:08:29 EDT  
From: w4pj@w4bkx.ampr.org  
To: qrp-1@lehigh.edu  
Subject: [49880] Rare QLF [Was Re: Better CW]  
Message-ID: <90756@w4bkx.ampr.org>

"Behind a hard to copy fist..."  
Whilst tuning the band (like all dilligent DXers) I once heard  
the most awful fist sending CQ. Over and over I could barely  
make it out... the Gawd-Awfullest QLF I ever encountered...  
but finally did get his callsign and decided to give him a call.  
After the QSO, during which several times I sent his callsign and mine,  
I signed off. Then there sounded like every CW op in the Northern  
Hemisphere wanted to talk with this chap. He was on Trindade Island  
PY0T, quite a rare catch and a "new-one" for me! <grin>

de (Scott) W4PJ

-----  
Date: Thu, 09 Sep 1999 16:18:55 -0600 (CST)  
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [49881] 49er crystal  
Message-ID: <Pine.OSF.4.10.9909091616510.15742-1000000@duke.usask.ca>  
MIME-version: 1.0  
Content-type: TEXT/PLAIN; charset=US-ASCII

I have a 49er and I had the crystal mounted in a socket so it could be  
removed. Unfortunately I have lost the crystal. Does any one know how I  
could get a replacement?

Thanks

+-----+  
| Brian Buydens, Computing Services, University of Saskatchewan |  
| email: Brian.Buydens@usask.ca http://duke.usask.ca/~buydens |  
| VE5RDV |  
+-----+  
| Who is General Failure and why is he trying to read my hard drive? |  
+-----+

-----  
Date: Thu, 9 Sep 1999 15:40:53 -0700 (PDT)  
From: Monte Stark <ku7y@dri.edu>  
To: Roy <ab7ce@email.msn.com>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [49882] Re: prosigns  
Message-ID: <Pine.GS0.4.10.9909091510000.16959-1000000@rotor.dri.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 9 Sep 1999, Roy wrote:

> I have noticed some folks using a question mark for a comma. Is this a  
> common thing or has there been some confusion somewhere? Roy AB7CE

I have not heard of any listing of a question mark being used in place of a comma. I think this is just a case (cases) of being confussed! One is the mirror image of the other...

dahdahdiditdahdah

vs

diditdahdahdidit

The only prosigns that my handbooks here at home show being sent as one letter are:

AS, KN, SK and in the books that show it, BT.

BK is always shown to be sent as two letters, regardless of the meaning being assigned to it.

BK has two meanings....but they are so close to each other that I think they both fit..... when you chose to invite the other station to reply without a full exchange of call signs, it's fine (IMHO) to just use BK, meaning EITHER Break, it's your turn, or Back to you. In either case it's stating that it's now your turn to Xmit.

KN on the other hand should only be used with a call sign because this prosign means for ONLY the station being called to reply. Without indicating a station (by the use of their call sign) this really has no meaning....

For a hyphen (sp?) I've always use dahdidididitdah. That's a dah, 4 dits and one more dah.

BT is the double dash and I seem to remember something about it's use to indicate something in message formats, maybe like a paragraph or something.

I have also heard it used as an EQUAL sign but not sure that is right.

By the time I was a ham, 53', it had become the CW equivalint of "Ahhhhh", the great time waster while you think of something to say or in my case how to spell the next word!

It's like, are you going to stand in line or are you going to que up?

Or why do you PARK on a DRIVEway?

cul,

73, Ron,        SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....  
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

-----  
Date: Thu, 9 Sep 1999 17:48:48 -0500  
From: "Nick Kennedy" <nkennedy@cswnet.com>  
To: <kw3u@warwick.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [49883] Re: Rotten CW  
Message-ID: <005201befb15\$7bef06e0\$6b7154d8@big>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit



Well, I always thought BK could be either Break or Back.

As a prosign, it should be sent as one character (BK with a line drawn over it). But most of us send it as B space K.

Even with this complication, it's not hard to figure out the meaning from the context.

"BK to you" means "back to you" of course.

BK interjected between an exchange between two stations means break. I'm breaking in on you guys.

BK sent in place of K means break. (Sometimes with the added meaning "I'm QSK")

BK in the middle of a transmission means "BREAK" as in, I'm turning it back to you briefly for a fill in. Like "PSE RPT UR NAME BK"

All easy from the context, IMHO.

72

Nick, WA5BDU (BK)

-----Original Message-----

From: jim seeber <kw3u@warwick.net>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Date: Thursday, September 09, 1999 10:36 AM

Subject: Re: Rotten CW

>> Again BK is break...not back to you

>> 'nuf said...Pete NV4V vvvvvv

>

>Hoo Boy,

> I've been using BK along with most of my contacts, and

>especially in contesting since way back when I used a

>wood burning radio.

> what is the proper prosign? In traffic handling BT is used

>before signature for break text I believe.

> This should be interesting.

> 72 Jim

>kw3u

>

>

>

-----  
Date: Fri, 10 Sep 1999 08:55:53 +1000  
From: "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [49884] Crystal Lattice Filter Design Article  
Message-ID: <37D83AF9.DB4EE348@integritynet.com.au>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi Gang,

Sorry BW but I sent the following message to many kind helpers.  
Unfortunately I trashed half of them (and the email addresses) in my  
drafts folder - duh! again. So if you didn't get it from me directly  
please accept both my thanks and apologies now

SNIP

Sorry in being tardy in replying to your kind offer. Among the offers of  
help was one including 7 .jpg files, which of course was the actual  
article.

No wonder I had mailer problems that day. The attachment was 7 X 2.3 Meg  
files ( yes correct numbers).

Anyway thanks for the magnificent offer of help - it's truly  
appreciated. Always interested in related articles. BTW I hadn't seen  
the original article before.

--

73's

Ian Purdie  
VK2TIP "I'll give you the TIP mate"  
Budgewoi N.S.W. Australia  
Tel: 61 + 2 + 4399 3228 (2200 - 0800 U.T.C. please.)  
QRP-L member #1978.  
URL - <http://www.integritynet.com.au/~purdic/>  
URL - <http://www.qsl.net/vk2tip/>  
"Three out of five Web experts agree that frames are the work of the  
devil and represent all that is evil about the Web. The remaining two  
experts are agnostic and think that frames are just a stupid idea" -

-----

End of QRP-L Digest 1574

\*\*\*\*\*

-----